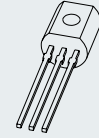


# Triacs and Thyristors

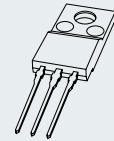
## ST Microelectronics Cross Reference Guide

### 3-Quadrant Triacs

ST Semiconductor Part	Philips Part	$I_{T(RMS)}$ (A)	Voltage (V)	$I_{CT}$ (mA)	Package
ACS108-5SA	BTA201-800ER	1	800	10	SOT54/TO92
BTA06-400BW	BTA208X-600B	8	600	50/50/50	SOT186A/TO220AB(isolated)
BTA06-400CW	BTA208X-600F	8	600	25/25/25	SOT186A/TO220AB(isolated)
BTA06-400SW	BTA208X-600E	8	600	10/10/10	SOT186A/TO220AB(isolated)
BTA06-400TW	BTA208X-600D	8	600	5/5/5	SOT186A/TO220AB(isolated)
BTA06-600BW	BTA208X-600B	8	600	50/50/50	SOT186A/TO220AB(isolated)
BTA06-600CW	BTA208X-600F	8	600	25/25/25	SOT186A/TO220AB(isolated)
BTA06-600SW(RG)	BTA208X-600E	8	600	10/10/10	SOT186A/TO220AB(isolated)
BTA06-600TW	BTA208X-600D	8	600	5/5/5	SOT186A/TO220AB(isolated)
BTA06-700BW	BTA208X-800B	8	800	50/50/50	SOT186A/TO220AB(isolated)
BTA06-700CW	BTA208X-800F	8	800	25/25/25	SOT186A/TO220AB(isolated)
BTA06-700SW	BTA208X-800E	8	800	10/10/10	SOT186A/TO220AB(isolated)
BTA06-800BW	BTA208X-800B	8	800	50/50/50	SOT186A/TO220AB(isolated)
BTA06-800CW	BTA208X-800F	8	800	25/25/25	SOT186A/TO220AB(isolated)
BTA06-800SW	BTA208X-800E	8	800	10/10/10	SOT186A/TO220AB(isolated)
BTA08-400BW	BTA208X-600B	8	600	50/50/50	SOT186A/TO220AB(isolated)
BTA08-400CW	BTA208X-600F	8	600	25/25/25	SOT186A/TO220AB(isolated)
BTA08-400SW	BTA208X-600E	8	600	10/10/10	SOT186A/TO220AB(isolated)
BTA08-400TW	BTA208X-600D	8	600	5/5/5	SOT186A/TO220AB(isolated)
BTA08-600BW	BTA208X-600B	8	600	50/50/50	SOT186A/TO220AB(isolated)
BTA08-600CW(RG)	BTA208X-600F	8	600	25/25/25	SOT186A/TO220AB(isolated)
BTA08-600SW(RG)	BTA208X-600E	8	600	10/10/10	SOT186A/TO220AB(isolated)
BTA08-600TW	BTA208X-600D	8	600	5/5/5	SOT186A/TO220AB(isolated)
BTA08-700BW	BTA208X-800B	8	800	50/50/50	SOT186A/TO220AB(isolated)
BTA08-700CW(RG)	BTA208X-800F	8	800	25/25/25	SOT186A/TO220AB(isolated)
BTA08-700SW	BTA208X-800E	8	800	10/10/10	SOT186A/TO220AB(isolated)
BTA08-800BW(RG)	BTA208X-800B	8	800	50/50/50	SOT186A/TO220AB(isolated)
BTA08-800CW	BTA208X-800F	8	800	25/25/25	SOT186A/TO220AB(isolated)
BTA08-800SW	BTA208X-800E	8	800	10/10/10	SOT186A/TO220AB(isolated)
BTA10-200BW	BTA212X-600B	12	600	50/50/50	SOT186A/TO220AB(isolated)
BTA10-200CW	BTA212X-600F	12	600	25/25/25	SOT186A/TO220AB(isolated)
BTA10-400BW	BTA212X-600B	12	600	50/50/50	SOT186A/TO220AB(isolated)
BTA10-400CW	BTA212X-600F	12	600	25/25/25	SOT186A/TO220AB(isolated)
BTA10-600BW	BTA212X-600B	12	600	50/50/50	SOT186A/TO220AB(isolated)
BTA10-600CW	BTA212X-600F	12	600	25/25/25	SOT186A/TO220AB(isolated)
BTA10-700BW	BTA212X-800B	12	800	50/50/50	SOT186A/TO220AB(isolated)
BTA10-700CW	BTA212X-800F	12	800	25/25/25	SOT186A/TO220AB(isolated)
BTA10-800BW	BTA212X-800B	12	800	50/50/50	SOT186A/TO220AB(isolated)
BTA10-800CW	BTA212X-800F	12	800	25/25/25	SOT186A/TO220AB(isolated)
BTA12-200BW	BTA212X-600B	12	600	50/50/50	SOT186A/TO220AB(isolated)
BTA12-200CW	BTA212X-600F	12	600	25/25/25	SOT186A/TO220AB(isolated)
BTA12-400BW	BTA212X-600B	12	600	50/50/50	SOT186A/TO220AB(isolated)
BTA12-400CW	BTA212X-600F	12	600	25/25/25	SOT186A/TO220AB(isolated)
BTA12-400SW	BTA212X-600E	12	600	10/10/10	SOT186A/TO220AB(isolated)
BTA12-600BW(RG)	BTA212X-600B	12	600	50/50/50	SOT186A/TO220AB(isolated)
BTA12-600CW(RG)	BTA212X-600F	12	600	25/25/25	SOT186A/TO220AB(isolated)
BTA12-600SW	BTA212X-600E	12	600	10/10/10	SOT186A/TO220AB(isolated)
BTA12-600TW(RG)	BTA212X-600D	12	600	5/5/5	SOT186A/TO220AB(isolated)
BTA12-700BW	BTA212X-800B	12	800	50/50/50	SOT186A/TO220AB(isolated)
BTA12-700CW	BTA212X-800F	12	800	25/25/25	SOT186A/TO220AB(isolated)
BTA12-800BW	BTA212X-800B	12	800	50/50/50	SOT186A/TO220AB(isolated)



SOT54 / TO92



SOT186A / TO220AB (Isolated)

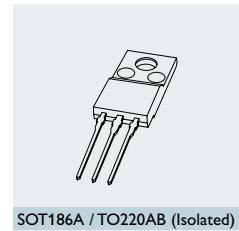
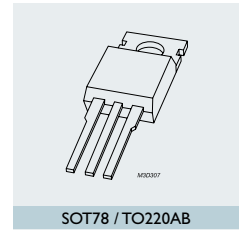
Package drawings are not to scale

# Triacs and Thyristors

## ST Microelectronics Cross Reference Guide

### 3-Quadrant Triacs

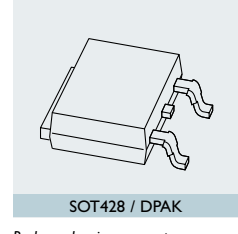
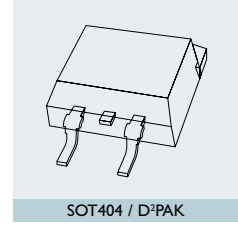
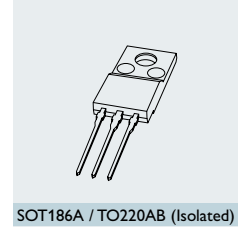
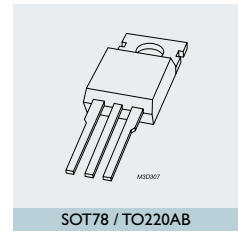
ST Semiconductor Part	Philips Part	$I_{T(RMS)}$ (A)	Voltage (V)	$I_{GT}$ (mA)	Package
BTA12-800CW(RG)	BTA212X-800F	12	800	25/25/25	SOT186A/TO220AB(isolated)
BTA12-800SW(RG)	BTA212X-800E	12	800	10/10/10	SOT186A/TO220AB(isolated)
BTA16-400BW	BTA216X-600B	16	600	50/50/50	SOT186A/TO220AB(isolated)
BTA16-400CW	BTA216X-600F	16	600	25/25/25	SOT186A/TO220AB(isolated)
BTA16-600BW(RG)	BTA216X-600B	16	600	50/50/50	SOT186A/TO220AB(isolated)
BTA16-600CW(RG)	BTA216X-600F	16	600	25/25/25	SOT186A/TO220AB(isolated)
BTA16-600SW	BTA216X-600E	16	600	10/10/10	SOT186A/TO220AB(isolated)
BTA16-700BW	BTA216X-800B	16	800	50/50/50	SOT186A/TO220AB(isolated)
BTA16-700CW	BTA216X-800F	16	800	25/25/25	SOT186A/TO220AB(isolated)
BTA16-700SW	BTA216X-800E	16	800	10/10/10	SOT186A/TO220AB(isolated)
BTA16-800BW(RG)	BTA216X-800B	16	800	50/50/50	SOT186A/TO220AB(isolated)
BTA16-800CW	BTA216X-800F	16	800	25/25/25	SOT186A/TO220AB(isolated)
BTA16-800SW	BTA216X-800E	16	800	10/10/10	SOT186A/TO220AB(isolated)
BTB06-400BW	BTA208-600B	8	600	50/50/50	SOT78/TO220AB
BTB06-400CW	BTA208-600F	8	600	25/25/25	SOT78/TO220AB
BTB06-400SW	BTA208-600E	8	600	10/10/10	SOT78/TO220AB
BTB06-400TW	BTA208-600D	8	600	5/5/5	SOT78/TO220AB
BTB06-600BW	BTA208-600B	8	600	50/50/50	SOT78/TO220AB
BTB06-600CW	BTA208-600F	8	600	25/25/25	SOT78/TO220AB
BTB06-600SW	BTA208-600E	8	600	10/10/10	SOT78/TO220AB
BTB06-600TW	BTA208-600D	8	600	5/5/5	SOT78/TO220AB
BTB06-700BW	BTA208-800B	8	800	50/50/50	SOT78/TO220AB
BTB06-700CW	BTA208-800F	8	800	25/25/25	SOT78/TO220AB
BTB06-700SW	BTA208-800E	8	800	10/10/10	SOT78/TO220AB
BTB06-800BW	BTA208-800B	8	800	50/50/50	SOT78/TO220AB
BTB06-800CW	BTA208-800F	8	800	25/25/25	SOT78/TO220AB
BTB06-800SW	BTA208-800E	8	800	10/10/10	SOT78/TO220AB
BTB08-400BW	BTA208-600B	8	600	50/50/50	SOT78/TO220AB
BTB08-400CW	BTA208-600F	8	600	25/25/25	SOT78/TO220AB
BTB08-400SW	BTA208-600E	8	600	10/10/10	SOT78/TO220AB
BTB08-400TW(RG)	BTA208-600D	8	600	5/5/5	SOT78/TO220AB
BTB08-600BW(RG)	BTA208-600B	8	600	50/50/50	SOT78/TO220AB
BTB08-600CW(RG)	BTA208-600F	8	600	25/25/25	SOT78/TO220AB
BTB08-600SW	BTA208-600E	8	600	10/10/10	SOT78/TO220AB
BTB08-600TW(RG)	BTA208-600D	8	600	5/5/5	SOT78/TO220AB
BTB08-700BW	BTA208-800B	8	800	50/50/50	SOT78/TO220AB
BTB08-700CW(RG)	BTA208-800F	8	800	25/25/25	SOT78/TO220AB
BTB08-700SW	BTA208-800E	8	800	10/10/10	SOT78/TO220AB
BTB08-800BW	BTA208-800B	8	800	50/50/50	SOT78/TO220AB
BTB08-800CW	BTA208-800F	8	800	25/25/25	SOT78/TO220AB
BTB08-800SW	BTA208-800E	8	800	10/10/10	SOT78/TO220AB
BTB10-200BW	BTA212-600B	12	600	50/50/50	SOT78/TO220AB
BTB10-200CW	BTA212-600F	12	600	25/25/25	SOT78/TO220AB
BTB10-400BW	BTA212-600B	12	600	50/50/50	SOT78/TO220AB
BTB10-400CW	BTA212-600F	12	600	25/25/25	SOT78/TO220AB
BTB10-600BW	BTA212-600B	12	600	50/50/50	SOT78/TO220AB
BTB10-600CW	BTA212-600F	12	600	25/25/25	SOT78/TO220AB
BTB10-700BW	BTA212-800B	12	800	50/50/50	SOT78/TO220AB
BTB10-700CW	BTA212-800F	12	800	25/25/25	SOT78/TO220AB
BTB10-800BW	BTA212-800B	12	800	50/50/50	SOT78/TO220AB
BTB10-800CW	BTA212-800F	12	800	25/25/25	SOT78/TO220AB
BTB12-200BW	BTA212-600B	12	600	50/50/50	SOT78/TO220AB
BTB12-200CW	BTA212-600F	12	600	25/25/25	SOT78/TO220AB
BTB12-400BW	BTA212-600B	12	600	50/50/50	SOT78/TO220AB
BTB12-400CW	BTA212-600F	12	600	25/25/25	SOT78/TO220AB
BTB12-400SW	BTA212-600E	12	600	10/10/10	SOT78/TO220AB
BTB12-600BW(RG)	BTA212-600B	12	600	50/50/50	SOT78/TO220AB



Package drawings are not to scale

### 3-Quadrant Triacs

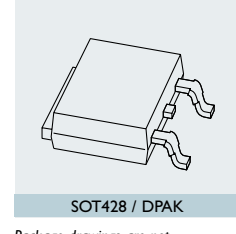
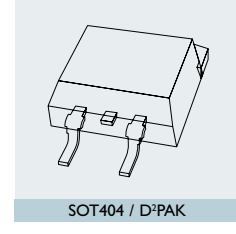
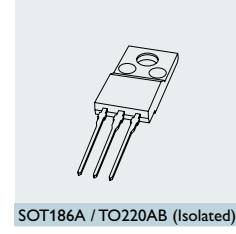
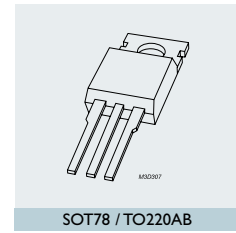
ST Semiconductor Part	Philips Part	$I_{T(RMS)}$ (A)	Voltage (V)	$I_{GT}$ (mA)	Package
BTB12-600CW(RG)	BTA212-600F	12	600	25/25/25	SOT78/TO220AB
BTB12-600SW	BTA212-600E	12	600	10/10/10	SOT78/TO220AB
BTB12-600TWRG	BTA212-600D	12	600	5/5/5	SOT78/TO220AB
BTB12-700BW	BTA212-800B	12	800	50/50/50	SOT78/TO220AB
BTB12-700CW	BTA212-800F	12	800	25/25/25	SOT78/TO220AB
BTB12-800BW	BTA212-800B	12	800	50/50/50	SOT78/TO220AB
BTB12-800CW	BTA212-800F	12	800	25/25/25	SOT78/TO220AB
BTB12-800SW	BTA212-800E	12	800	10/10/10	SOT78/TO220AB
BTB16-400BW	BTA216-600B	16	600	50/50/50	SOT78/TO220AB
BTB16-400CW	BTA216-600F	16	600	25/25/25	SOT78/TO220AB
BTB16-600BW(RG)	BTA216-600B	16	600	50/50/50	SOT78/TO220AB
BTB16-600CW(RG)	BTA216-600F	16	600	25/25/25	SOT78/TO220AB
BTB16-600SW	BTA216-600E	16	600	10/10/10	SOT78/TO220AB
BTB16-700BW(RG)	BTA216-800B	16	800	50/50/50	SOT78/TO220AB
BTB16-700CW	BTA216-800F	16	800	25/25/25	SOT78/TO220AB
BTB16-700SW(RG)	BTA216-800E	16	800	10/10/10	SOT78/TO220AB
BTB16-800BW	BTA216-800B	16	800	50/50/50	SOT78/TO220AB
BTB16-800CW	BTA216-800F	16	800	25/25/25	SOT78/TO220AB
BTB16-800SW	BTA216-800E	16	800	10/10/10	SOT78/TO220AB
BTB20-400BW	BTA225-600B	25	600	50/50/50	SOT78/TO220AB
BTB20-600BW	BTA225-600B	25	600	50/50/50	SOT78/TO220AB
BTB20-700BW	BTA225-800B	25	800	50/50/50	SOT78/TO220AB
BTB20-800BW	BTA225-800B	25	800	50/50/50	SOT78/TO220AB
BTB24-400BW	BTA225-600B	25	600	50/50/50	SOT78/TO220AB
BTB24-600BW(RG)	BTA225-600B	25	600	50/50/50	SOT78/TO220AB
BTB24-700BW	BTA225-800B	25	800	50/50/50	SOT78/TO220AB
BTB24-800BW	BTA225-800B	25	800	50/50/50	SOT78/TO220AB
T1020-400W	BTA212X-600E	12	600	10/10/10	SOT186A/TO220AB(isolated)
T1020-600W	BTA212X-600E	12	600	10/10/10	SOT186A/TO220AB(isolated)
T1020-700W	BTA212X-800E	12	800	10/10/10	SOT186A/TO220AB(isolated)
T1020-800W	BTA212X-800E	12	800	10/10/10	SOT186A/TO220AB(isolated)
T1030-400W	BTA212X-600F	12	600	25/25/25	SOT186A/TO220AB(isolated)
T1030-600W	BTA212X-600F	12	600	25/25/25	SOT186A/TO220AB(isolated)
T1030-700W	BTA212X-800F	12	800	25/25/25	SOT186A/TO220AB(isolated)
T1030-800W	BTA212X-800F	12	800	25/25/25	SOT186A/TO220AB(isolated)
T1220-400W	BTA212X-600E	12	600	10/10/10	SOT186A/TO220AB(isolated)
T1220-600W	BTA212X-600E	12	600	10/10/10	SOT186A/TO220AB(isolated)
T1220-700W	BTA212X-800E	12	800	10/10/10	SOT186A/TO220AB(isolated)
T1230-400W	BTA212X-600F	12	600	25/25/25	SOT186A/TO220AB(isolated)
T1230-600W	BTA212X-600F	12	600	25/25/25	SOT186A/TO220AB(isolated)
T1230-700W	BTA212X-800F	12	800	25/25/25	SOT186A/TO220AB(isolated)
T1235-600G(-TR)	BTA212B-600F	12	600	25/25/25	SOT404/D <sup>2</sup> PAK
T1235-800G(-TR)	BTA212B-800F	12	800	25/25/25	SOT404/D <sup>2</sup> PAK
T1235-600M	BTA212X-600F	12	600	25/25/25	SOT186A/TO220AB(isolated)
T1620-400W	BTA216X-600E	16	600	10/10/10	SOT186A/TO220AB(isolated)
T1620-600W	BTA216X-600E	16	600	10/10/10	SOT186A/TO220AB(isolated)
T1620-700W	BTA216X-800E	16	800	10/10/10	SOT186A/TO220AB(isolated)
T1630-400W	BTA216X-600F	16	600	25/25/25	SOT186A/TO220AB(isolated)
T1630-600W	BTA216X-600F	16	600	25/25/25	SOT186A/TO220AB(isolated)
T1630-700W	BTA216X-800F	16	800	25/25/25	SOT186A/TO220AB(isolated)
T1630-800W	BTA216X-800F	16	800	25/25/25	SOT186A/TO220AB(isolated)
T1635-600M	BTA216X-600F	16	600	25/25/25	SOT186A/TO220AB(isolated)
T1635-600G	BTA216B-600F	16	600	25/25/25	SOT404/D <sup>2</sup> PAK
T1635-800G	BTA216B-800F	16	800	25/25/25	SOT404/D <sup>2</sup> PAK
T2550H-600T	BTA225-600BT	25	600	50/50/50	SOT78/TO220AB
T405-400B	BTA204S-600D	4	600	5/5/5	SOT428/DPAK
T405-400K	BTA204S-600D	4	600	5/5/5	SOT428/DPAK
T405-600B(-TR)	BTA204S-600D	4	600	5/5/5	SOT428/DPAK
T405-600K	BTA204S-600D	4	600	5/5/5	SOT428/DPAK
T405-400T	BTA204-600D	4	600	5/5/5	SOT78/TO220AB
T405-600T	BTA204-600D	4	600	5/5/5	SOT78/TO220AB



Package drawings are not to scale

### 3-Quadrant Triacs

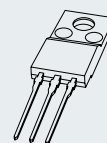
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T405-400W	BTA204X-600D	4	600	5/5/5	SOT186A/TO220AB(isolated)
T405-600W	BTA204X-600D	4	600	5/5/5	SOT186A/TO220AB(isolated)
T410-400B	BTA204S-600E	4	600	10/10/10	SOT428/DPAK
T410-400K	BTA204S-600E	4	600	10/10/10	SOT428/DPAK
T410-600B(-TR)	BTA204S-600E	4	600	10/10/10	SOT428/DPAK
T410-600K	BTA204S-600E	4	600	10/10/10	SOT428/DPAK
T410-400T	BTA204-600E	4	600	10/10/10	SOT78/TO220AB
T410-600T	BTA204-600E	4	600	10/10/10	SOT78/TO220AB
T410-400W	BTA204X-600E	4	600	10/10/10	SOT186A/TO220AB(isolated)
T410-600W	BTA204X-600E	4	600	10/10/10	SOT186A/TO220AB(isolated)
T410-700B(-TR)	BTA204S-800E	4	800	10/10/10	SOT428/DPAK
T410-700K	BTA204S-800E	4	800	10/10/10	SOT428/DPAK
T410-700T	BTA204-800E	4	800	10/10/10	SOT78/TO220AB
T410-700W	BTA204X-800E	4	800	10/10/10	SOT186A/TO220AB(isolated)
T410-800B(-TR)	BTA204S-800E	4	800	10/10/10	SOT428/DPAK
T410-800K	BTA204S-800E	4	800	10/10/10	SOT428/DPAK
T410-800T	BTA204-800E	4	800	10/10/10	SOT78/TO220AB
T410-800W	BTA204X-800E	4	800	10/10/10	SOT186A/TO220AB(isolated)
T435-400B	BTA204S-600C	4	600	35/35/35	SOT428/DPAK
T435-400K	BTA204S-600C	4	600	35/35/35	SOT428/DPAK
T435-400T	BTA204-600C	4	600	35/35/35	SOT78/TO220AB
T435-400W	BTA204X-600C	4	600	35/35/35	SOT186A/TO220AB(isolated)
T435-600B(-TR)	BTA204S-600C	4	600	35/35/35	SOT428/DPAK
T435-600K	BTA204S-600C	4	600	35/35/35	SOT428/DPAK
T435-600T	BTA204-600C	4	600	35/35/35	SOT78/TO220AB
T435-600W	BTA204X-600C	4	600	35/35/35	SOT186A/TO220AB(isolated)
T435-700B(-TR)	BTA204S-800C	4	800	35/35/35	SOT428/DPAK
T435-700K	BTA204S-800C	4	800	35/35/35	SOT428/DPAK
T435-700T	BTA204-800C	4	800	35/35/35	SOT78/TO220AB
T435-700W	BTA204X-800C	4	800	35/35/35	SOT186A/TO220AB(isolated)
T435-800B(-TR)	BTA204S-800C	4	800	35/35/35	SOT428/DPAK
T435-800K	BTA204S-800C	4	800	35/35/35	SOT428/DPAK
T435-800T	BTA204-800C	4	800	35/35/35	SOT78/TO220AB
T435-800W	BTA204X-800C	4	800	35/35/35	SOT186A/TO220AB(isolated)
T620-400W	BTA208X-600E	8	600	10/10/10	SOT186A/TO220AB(isolated)
T620-600W	BTA208X-600E	8	600	10/10/10	SOT186A/TO220AB(isolated)
T620-700W	BTA208X-800E	8	800	10/10/10	SOT186A/TO220AB(isolated)
T630-400W	BTA208X-600F	8	600	25/25/25	SOT186A/TO220AB(isolated)
T630-600W	BTA208X-600F	8	600	25/25/25	SOT186A/TO220AB(isolated)
T630-700W	BTA208X-800F	8	800	25/25/25	SOT186A/TO220AB(isolated)
T810-600B(-TR)	BTA208S-600E	8	600	10/10/10	SOT428/DPAK
T810-800B(-TR)	BTA208S-800E	8	800	10/10/10	SOT428/DPAK
T820-400W	BTA208X-600E	8	600	10/10/10	SOT186A/TO220AB(isolated)
T820-600W	BTA208X-600E	8	600	10/10/10	SOT186A/TO220AB(isolated)
T820-700W	BTA208X-800E	8	800	10/10/10	SOT186A/TO220AB(isolated)
T820-800W	BTA208X-800E	8	800	10/10/10	SOT186A/TO220AB(isolated)
T830-400W	BTA208X-600F	8	600	25/25/25	SOT186A/TO220AB(isolated)
T830-600W	BTA208X-600F	8	600	25/25/25	SOT186A/TO220AB(isolated)
T830-700W	BTA208X-800F	8	800	25/25/25	SOT186A/TO220AB(isolated)
T830-800W	BTA208X-1000C	8	1000	35/35/35	SOT186A/TO220AB(isolated)
T835-600B(-TR)	BTA208S-600F	8	600	25/25/25	SOT428/DPAK
T835-600G(-TR)	BTA212B-600F	12	600	25/25/25	SOT404/D <sup>2</sup> PAK
T835-600M	BTA208X-600F	8	600	25/25/25	SOT186A/TO220AB(isolated)
T835-800B(-TR)	BTA208S-800F	8	800	25/25/25	SOT428/DPAK
T835-800G(-TR)	BTA212B-800F	12	800	25/25/25	SOT404/D <sup>2</sup> PAK
TXDV408	BTA208X-600B	8	600	50/50/50	SOT186A/TO220AB(isolated)
TXDV412	BTA212X-600B	12	600	50/50/50	SOT186A/TO220AB(isolated)
TXDV608	BTA208X-600B	8	600	50/50/50	SOT186A/TO220AB(isolated)
TXDV612	BTA212X-600B	12	600	50/50/50	SOT186A/TO220AB(isolated)
TXDV808	BTA208X-800B	8	800	50/50/50	SOT186A/TO220AB(isolated)
TXDV812	BTA212X-800B	12	800	50/50/50	SOT186A/TO220AB(isolated)



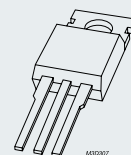
Package drawings are not to scale

## 4-Quadrant Triacs

ST Semiconductor Part	Philips Part	$I_{T(RMS)}$ (A)	Voltage (V)	$I_{GT}$ (mA)	Package
BTA04-400A	BT136X-600E	4	600	10/10/10/25	SOT186A/TO220AB(isolated)
BTA04-400D	BT136X-600D	4	600	5/5/5/10	SOT186A/TO220AB(isolated)
BTA04-400S	BT136X-600D	4	600	5/5/5/10	SOT186A/TO220AB(isolated)
BTA04-600A	BT136X-600E	4	600	10/10/10/25	SOT186A/TO220AB(isolated)
BTA04-600D	BT136X-600D	4	600	5/5/5/10	SOT186A/TO220AB(isolated)
BTA04-600S	BT136X-600D	4	600	5/5/5/10	SOT186A/TO220AB(isolated)
BTA04-700A	BT136X-800E	4	800	10/10/10/25	SOT186A/TO220AB(isolated)
BTA04-700S	BT136X-800E	4	800	10/10/10/25	SOT186A/TO220AB(isolated)
BTA06-400GP	BT138X-600G	12	600	50/50/50/100	SOT186A/TO220AB(isolated)
BTA06-600B(RG)	BT137X-600G	8	600	50/50/50/100	SOT186A/TO220AB(isolated)
BTA06-600C(RG)	BT137X-600F	8	600	25/25/25/70	SOT186A/TO220AB(isolated)
BTA06-600GP	BT138X-600G	12	600	50/50/50/100	SOT186A/TO220AB(isolated)
BTA06-800B	BT137X-800G	8	800	50/50/50/100	SOT186A/TO220AB(isolated)
BTA06-800C	BT137X-800F	8	800	25/25/25/70	SOT186A/TO220AB(isolated)
BTA08-600B(RG)	BT137X-600G	8	600	50/50/50/100	SOT186A/TO220AB(isolated)
BTA08-600C(RG)	BT137X-600F	8	600	25/25/25/70	SOT186A/TO220AB(isolated)
BTA08-800B	BT137X-800G	8	800	50/50/50/100	SOT186A/TO220AB(isolated)
BTA08-800C	BT137X-800F	8	800	25/25/25/70	SOT186A/TO220AB(isolated)
BTA10-400GP	BT139X-600G	16	600	50/50/50/100	SOT186A/TO220AB(isolated)
BTA10-600B	BT138X-600G	12	600	50/50/50/100	SOT186A/TO220AB(isolated)
BTA10-600C	BT138X-600F	12	600	25/25/25/70	SOT186A/TO220AB(isolated)
BTA10-600GP	BT139X-600G	16	600	50/50/50/100	SOT186A/TO220AB(isolated)
BTA10-800B	BT138X-800G	12	800	50/50/50/100	SOT186A/TO220AB(isolated)
BTA10-800C	BT138X-800F	12	800	25/25/25/70	SOT186A/TO220AB(isolated)
BTA12-600B(RG)	BT138X-600G	12	600	50/50/50/100	SOT186A/TO220AB(isolated)
BTA12-600C(RG)	BT138X-600F	12	600	25/25/25/70	SOT186A/TO220AB(isolated)
BTA12-800B	BT138X-800G	12	800	50/50/50/100	SOT186A/TO220AB(isolated)
BTA12-800C	BT138X-800F	12	800	25/25/25/70	SOT186A/TO220AB(isolated)
BTA16-600B(RG)	BT139X-600G	16	600	50/50/50/100	SOT186A/TO220AB(isolated)
BTA16-600C	BT139X-600F	16	600	25/25/25/70	SOT186A/TO220AB(isolated)
BTA16-700B	BT139X-800G	16	800	50/50/50/100	SOT186A/TO220AB(isolated)
BTA16-700C	BT139X-800F	16	800	25/25/25/70	SOT186A/TO220AB(isolated)
BTA16-800B	BT139X-800G	16	800	50/50/50/100	SOT186A/TO220AB(isolated)
BTA16-800C	BT139X-800F	16	800	25/25/25/70	SOT186A/TO220AB(isolated)
BTB04-400D	BT136-600D	4	600	5/5/5/10	SOT78/TO220AB
BTB04-600S	BT136-600D	4	600	5/5/5/10	SOT78/TO220AB
BTB04-600SAP	BT136-600E	4	600	10/10/10/25	SOT78/TO220AB
BTB04-600SL	BT136-600E	4	600	10/10/10/25	SOT78/TO220AB
BTB06-600B(RG)	BT137-600G	8	600	50/50/50/100	SOT78/TO220AB
BTB06-600C	BT137-600F	8	600	25/25/25/70	SOT78/TO220AB
BTB06-800B	BT137-800G	8	800	50/50/50/100	SOT78/TO220AB
BTB06-800C	BT137-800F	8	800	25/25/25/70	SOT78/TO220AB
BTB08-600B(RG)	BT137-600G	8	600	50/50/50/100	SOT78/TO220AB
BTB08-600C	BT137-600F	8	600	25/25/25/70	SOT78/TO220AB
BTB08-800B	BT137-800G	8	800	50/50/50/100	SOT78/TO220AB
BTB08-800C	BT137-800F	8	800	25/25/25/70	SOT78/TO220AB
BTB10-600B	BT138-600G	12	600	50/50/50/100	SOT78/TO220AB
BTB10-600C	BT138-600F	12	600	25/25/25/70	SOT78/TO220AB
BTB10-800B	BT138-800G	12	800	50/50/50/100	SOT78/TO220AB
BTB10-800C	BT138-800F	12	800	25/25/25/70	SOT78/TO220AB
BTB12-600B(RG)	BT138-600G	12	600	50/50/50/100	SOT78/TO220AB
BTB12-600C	BT138-600F	12	600	25/25/25/70	SOT78/TO220AB
BTB12-800B	BT138-800G	12	800	50/50/50/100	SOT78/TO220AB
BTB12-800C	BT138-800F	12	800	25/25/25/70	SOT78/TO220AB
BTB16-600B(RG)	BT139-600G	16	600	50/50/50/100	SOT78/TO220AB
BTB16-600C	BT139-600F	16	600	25/25/25/70	SOT78/TO220AB
BTB16-700B	BT139-800G	16	800	50/50/50/100	SOT78/TO220AB
BTB16-700C	BT139-800F	16	800	25/25/25/70	SOT78/TO220AB
BTB16-800B	BT139-800G	16	800	50/50/50/100	SOT78/TO220AB
BTB16-800C	BT139-800F	16	800	25/25/25/70	SOT78/TO220AB
BTB24-400B	BTA140-600	25	600	35/35/35/70	SOT78/TO220AB
BTB24-600B(RG)	BTA140-600	25	600	35/35/35/70	SOT78/TO220AB
BTB24-700B	BTA140-800	25	800	35/35/35/70	SOT78/TO220AB



SOT186A / TO220AB (Isolated)



SOT78 / TO220AB

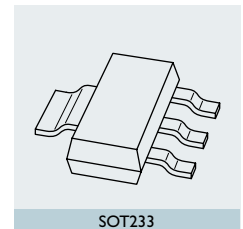
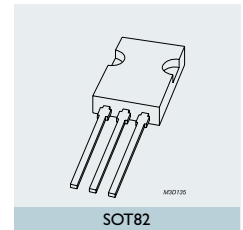
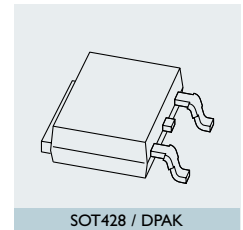
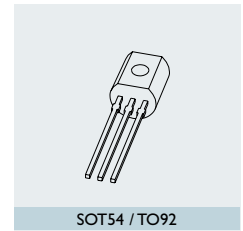
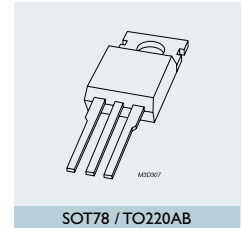
Package drawings are not to scale

# Triacs and Thyristors

## ST Microelectronics Cross Reference Guide

### 4-Quadrant Triacs

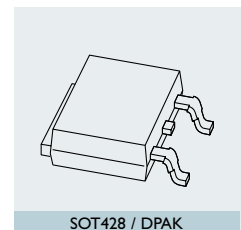
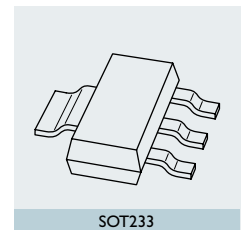
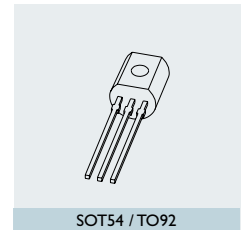
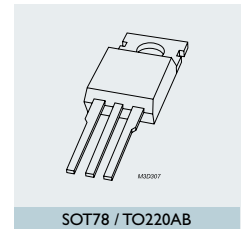
ST Semiconductor Part	Philips Part	$I_{T(RMS)}$ (A)	Voltage (V)	$I_{GT}$ (mA)	Package
BTB24-800B	BTA140-800	25	800	35/35/35/70	SOT78/TO220AB
T0510SH	BT137-800E	8	800	10/10/10/25	SOT78/TO220AB
T0512SH	BT137-800	8	800	35/35/35/70	SOT78/TO220AB
T0610SH	BT137-800E	8	800	10/10/10/25	SOT78/TO220AB
T0612SH	BT137-800	8	800	35/35/35/70	SOT78/TO220AB
T0810SH	BT137-800E	8	800	10/10/10/25	SOT78/TO220AB
T0812SH	BT137-800	8	800	35/35/35/70	SOT78/TO220AB
T08-2A	BT131-600E / Z0109MA	1	600	10/10/10/10	SOT54/TO92
T08-4A	BT131-600E / Z0109MA	1	600	10/10/10/10	SOT54/TO92
T08-6A	BT131-600E / Z0109MA	1	600	10/10/10/10	SOT54/TO92
T1010SH	BT138-800E	12	800	10/10/10/25	SOT78/TO220AB
T1012SH	BT138-800	12	800	35/35/35/70	SOT78/TO220AB
T1013SH	BT138-800	12	800	35/35/35/70	SOT78/TO220AB
T1210SH	BT138-800E	12	800	10/10/10/25	SOT78/TO220AB
T1212SH	BT138-800	12	800	35/35/35/70	SOT78/TO220AB
T1213SH	BT138-800	12	800	35/35/35/70	SOT78/TO220AB
T1612SH	BT139-800	16	800	35/35/35/70	SOT78/TO220AB
T1613SH	BT139-800	16	800	35/35/35/70	SOT78/TO220AB
T405Q-600B-TR	BT136S-600D	4	600	5/5/5/10	SOT428/DPAK
T405Q-600H	BT134-600D	4	600	5/5/5/10	SOT82
Z00607MA	BT1308-600D	0.8	600	5/5/5/7	SOT54/TO92
Z0103DA	BT131-600 / Z0103MA	1	600	3/3/3/7	SOT54/TO92
Z0103MA	BT131-600 / Z0103MA	1	600	3/3/3/7	SOT54/TO92
Z0103DN	Z0103MN	1	600	3/3/3/5	SOT223
Z0103MN	Z0103MN	1	600	3/3/3/5	SOT223
Z0103NA	BT131-800 / Z0103NA	1	800	3/3/3/7	SOT54/TO92
Z0103SA	BT131-800 / Z0103NA	1	800	3/3/3/7	SOT54/TO92
Z0103NN	Z0103NN	1	800	3/3/3/5	SOT223
Z0103SN	Z0103NN	1	800	3/3/3/5	SOT223
Z0107DA	BT131-600D / Z0107MA	1	600	5/5/5/7	SOT54/TO92
Z0107MA	BT131-600D / Z0107MA	1	600	5/5/5/7	SOT54/TO92
Z0107DN	Z0107MN	1	600	5/5/5/7	SOT223
Z0107MN	Z0107MN	1	600	5/5/5/7	SOT223
Z0107NA	BT131-800D / Z0107NA	1	800	5/5/5/7	SOT54/TO92
Z0107SA	BT131-800D / Z0107NA	1	800	5/5/5/7	SOT54/TO92
Z0107NN	Z0107NN	1	800	5/5/5/7	SOT223
Z0107SN	Z0107NN	1	800	5/5/5/7	SOT223
Z0109DA	BT131-600E / Z0109MA	1	600	10/10/10/10	SOT54/TO92
Z0109MA	BT131-600E / Z0109MA	1	600	10/10/10/10	SOT54/TO92
Z0109DN	Z0109MN	1	600	10/10/10/10	SOT223
Z0109MN	Z0109MN	1	600	10/10/10/10	SOT223
Z0109NA	BT131-800E / Z0109NA	1	800	10/10/10/10	SOT54/TO92
Z0109SA	BT131-800E / Z0109NA	1	800	10/10/10/10	SOT54/TO92
Z0109NN	Z0109NN	1	800	10/10/10/10	SOT223
Z0109SN	Z0109NN	1	800	10/10/10/10	SOT223
Z0110MA	BT131-600E / Z0109MA	1	600	10/10/10/10	SOT54/TO92
Z0110NA	BT131-800E / Z0109NA	1	800	10/10/10/10	SOT54/TO92
Z0110MN	Z0109MN	1	600	10/10/10/10	SOT223
Z0110NN	Z0109NN	1	800	10/10/10/10	SOT223
Z0110SN	Z0109NN	1	800	10/10/10/10	SOT223
Z0110SA	BT131-800E / Z0109NA	1	800	10/10/10/10	SOT54/TO92
Z0405MF	BT136-600D	4	600	5/5/5/10	SOT78/TO220AB
Z0409MF	BT136-600D	4	600	5/5/5/10	SOT78/TO220AB
Z0409NF	BT136-800E	4	800	10/10/10/25	SOT78/TO220AB
Z0409SF	BT136-800E	4	800	10/10/10/25	SOT78/TO220AB
Z0410MF	BT136-600E	4	800	10/10/10/25	SOT78/TO220AB
Z0410NF	BT136-800E	4	800	10/10/10/25	SOT78/TO220AB
Z0410SE	BT136-800E	4	800	10/10/10/25	SOT78/TO220AB
Z0410SF	BT136-800E	4	800	10/10/10/25	SOT78/TO220AB



Package drawings are not to scale

## Thyristor (SCR)

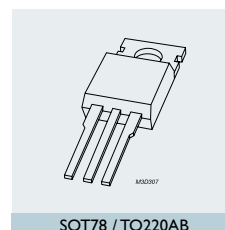
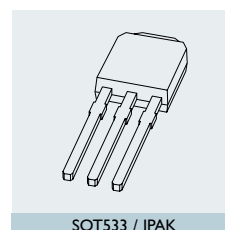
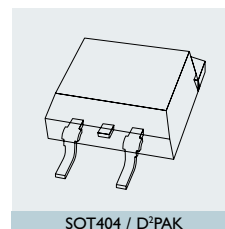
ST Semiconductor Part	Philips Part	$I_{T(RMS)}$ (A)	Voltage (V)	$I_{GT}$ (mA)	Package
P0102AA	BT169B	0.8	200	0.2	SOT54/TO92
P0102AB	BT149B	0.8	200	0.2	SOT54/TO92
P0102AN	BT168BW	0.8	200	0.2	SOT223
P0102BA	BT169B	0.8	200	0.2	SOT54/TO92
P0102BB	BT149B	0.8	200	0.2	SOT54/TO92
P0102BN	BT168BW	0.8	200	0.2	SOT223
P0102CA	BT169D	0.8	400	0.2	SOT54/TO92
P0102CB	BT149D	0.8	400	0.2	SOT54/TO92
P0102CN	BT168DW	0.8	400	0.2	SOT223
P0102DA	BT169D	0.8	400	0.2	SOT54/TO92
P0102DB	BT149D	0.8	400	0.2	SOT54/TO92
P0102DN	BT168DW	0.8	400	0.2	SOT223
P0102MA	BT169G	0.8	600	0.2	SOT54/TO92
P0102MN	BT168GW	0.8	600	0.2	SOT223
P0111DA	EC103D1	0.8	400	0.012	SOT54/TO92
P0115AA	EC103D1	0.8	400	0.012	SOT54/TO92
P0115BA	EC103D1	0.8	400	0.012	SOT54/TO92
P0115CA	EC103D1	0.8	400	0.012	SOT54/TO92
P0115DA	EC103D1	0.8	400	0.012	SOT54/TO92
P0202EA	BT169G	0.8	600	0.2	SOT54/TO92
P0202EN	BT168GW	0.8	600	0.2	SOT223
P0202MA	BT169G	0.8	600	0.2	SOT54/TO92
P0202MN	BT168GW	0.8	600	0.2	SOT223
S0417BH	BT151-500C	12	500	15	SOT78/TO220AB
S0417DH	BT151-500C	12	500	15	SOT78/TO220AB
S0417MH	BT151-650C	12	650	15	SOT78/TO220AB
S0417NH	BT151-800C	12	800	15	SOT78/TO220AB
S0617BH	BT151-500C	12	500	15	SOT78/TO220AB
S0617DH	BT151-500C	12	500	15	SOT78/TO220AB
S0617MH	BT151-650C	12	650	15	SOT78/TO220AB
S0617NH	BT151-800C	12	800	15	SOT78/TO220AB
S0817BH	BT151-500C	12	500	15	SOT78/TO220AB
S0817DH	BT151-500C	12	500	15	SOT78/TO220AB
S0817MH	BT151-650C	12	650	15	SOT78/TO220AB
S0817NH	BT151-800C	12	800	15	SOT78/TO220AB
S1017BH	BT151-500C	12	500	15	SOT78/TO220AB
S1017DH	BT151-500C	12	500	15	SOT78/TO220AB
S1017MH	BT151-650C	12	650	15	SOT78/TO220AB
S1017NH	BT151-800C	12	800	15	SOT78/TO220AB
S1217BH	BT151-500R	12	500	15	SOT78/TO220AB
S1217DH	BT151-500R	12	500	15	SOT78/TO220AB
S1217MH	BT151-650R	12	650	15	SOT78/TO220AB
S1217NH	BT151-800R	12	800	15	SOT78/TO220AB
S1616BH	BT152-400R	20	400	32	SOT78/TO220AB
S1616DH	BT152-400R	20	400	32	SOT78/TO220AB
S1616MH	BT152-600R	20	600	32	SOT78/TO220AB
S1616NH	BT152-800R	20	800	32	SOT78/TO220AB
S2516BH	BT145-500R	25	500	35	SOT78/TO220AB
S2516DH	BT145-500R	25	500	35	SOT78/TO220AB
S2516MH	BT145-600R	25	600	35	SOT78/TO220AB
S2516NH	BT145-800R	25	800	35	SOT78/TO220AB
TN1215-600B	BT151S-650R	12	650	15	SOT428/DPAK
TN1215-600H	BT151U-650C	12	650	15	SOT533/IPAK
TN1215-800B	BT151S-800R	12	800	15	SOT428/DPAK
TN1215-800H	BT151U-800C	12	800	15	SOT533/IPAK
TN1625-600G	BT152B-600R	20	600	32	SOT404/D <sup>3</sup> PAK
TN1625-800G	BT152B-800R	20	800	32	SOT404/D <sup>3</sup> PAK
TN815-600B	BT300S-600R	8	600	15	SOT428/DPAK
TN815-600H	BT151U-650C	12	650	15	SOT533/IPAK
TN815-800B	BT151-800C	12	800	15	SOT78/TO220AB
TN815-800H	BT151U-800C	12	800	15	SOT533/IPAK
TS120-400F	BT168GW	0.8	600	0.2	SOT223
TS120-600F	BT168GW	0.8	600	0.2	SOT223



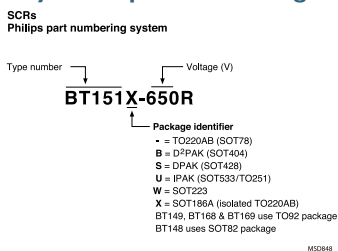
Package drawings are not to scale

## Thyristor (SCR)

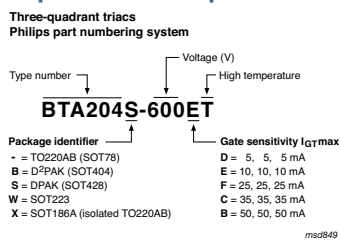
ST Semiconductor Part	Philips Part	$I_{T(RMS)}$ (A)	Voltage (V)	$I_{GT}$ (mA)	Package
TS420-400B	BT150S-500R	4	500	0.2	SOT428/DPAK
TS420-600B	BT150S-600R	4	600	0.2	SOT428/DPAK
TS420-600H	BT148-600R	4	600	0.2	SOT82
TS420-600T	BT150-600R	4	600	0.2	SOT78/TO220AB
TS420-700B	BT150S-800R	4	800	0.2	SOT428/DPAK
TS420-700T	BT150-800R	4	800	0.2	SOT78/TO220AB
TS820-400B	BT258S-800R	8	800	0.2	SOT428/DPAK
TS820-600B	BT258S-600R	8	600	0.2	SOT428/DPAK
TS820-600H	BT151U-650C	12	650	15	SOT533/IPAK
TS820-600T	BT258-600R	8	600	0.2	SOT78/TO220AB
TS820-700B	BT258S-800R	8	800	0.2	SOT428/DPAK
TS820-700H	BT151U-800C	12	800	15	SOT533/IPAK
TS820-700T	BT258-800R	8	800	0.2	SOT78/TO220AB
TYN210	BT151-500C	12	500	15	SOT78/TO220AB
TYN410	BT151-500C	12	500	15	SOT78/TO220AB
TYN606	BT151-650C	12	650	15	SOT78/TO220AB
TYN608	BT151-650C	12	650	15	SOT78/TO220AB
TYN610	BT151-650C	12	650	15	SOT78/TO220AB
TYN612	BT151-650R	12	650	15	SOT78/TO220AB
TYN616	BT152-600R	20	600	32	SOT78/TO220AB
TYN625	BT145-600R	25	600	35	SOT78/TO220AB
TYN808	BT151-800C	12	800	15	SOT78/TO220AB
TYN810	BT151-800C	12	800	15	SOT78/TO220AB
TYN812	BT151-800R	12	800	15	SOT78/TO220AB
TYN816	BT152-800R	20	800	32	SOT78/TO220AB
TYN825	BT145-800R	25	800	35	SOT78/TO220AB
TYP1012	BT145-500R	25	500	35	SOT78/TO220AB
TYP512	BT145-500R	25	500	35	SOT78/TO220AB
X00602MA	BT168G	0.8	600	0.2	SOT54/TO92
X0402MF	BT150-600R	4	600	0.2	SOT78/TO220AB
X0402NF	BT150-800R	4	800	0.2	SOT78/TO220AB



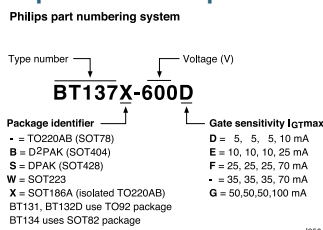
### Thyristors part numbering



### 3-quadrant triacs part numbering



### 4-quadrant triacs part numbering



## Philips Semiconductors

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