

General purpose transistor(20V,0.2A)

2SCR522M / 2SCR522EB / 2SCR522UB

Structure

NPN silicon epitaxial planar transistor

●Features

Complements the 2SAR522M / 2SAR522EB / 2SAR522UB.

Applications

Switch, LED driver

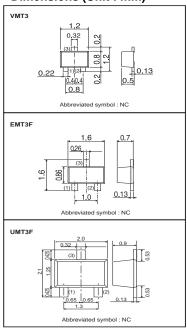
Packaging specifications

	Package	VMT3	EMT3F	UMT3F
Туре	Packaging Type	Taping	Taping	Taping
	Code	T2L	TL	TL
	Basic ordering unit (pieces)	8000	3000	3000
2SCR522M		0	_	_
2SCR522EB		_	0	_
2SCR522UB		_	_	0

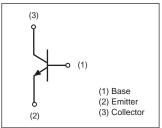
● Absolute maximum ratings (Ta=25°C)

Parameter		Symbol	Limits	Unit
Collector-base voltage		Vсво	20	V
Collector-emitter voltage		VCEO	20	V
Emitter-base voltage		Vево	5	V
Collector current		Ic	200	mA
		ICP *1	400	mA
Power dissipation	2SCR522M,2SCR522EB	Pn *2	150	mW
	2SCR522UB	10	200	mW
Junction temperature		Tj	150	°C
Range of storage temperature		Tstg	-55 to +150	°C

●Dimensions (Unit:mm)



•Inner circuit

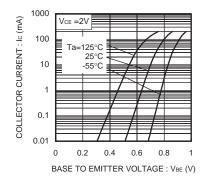


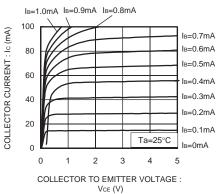
●Electrical characteristics (Ta=25°C)

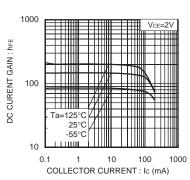
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-emitter breakdown voltage	BVceo	20	_	_	V	Ic=1mA
Collector-base breakdown voltage	ВУсво	20	_	_	V	Ic=50μA
Emitter-base breakdown voltage	ВУево	5	_	_	V	Iε=50μA
Collector cut-off current	Ісво	_	_	0.1	μΑ	Vcb=20V
Emitter cut-off current	ІЕВО	_	_	0.1	μΑ	V _{EB} =5V
Collector-emitter saturation voltage	VCE(sat)	_	0.12	0.30	V	Ic=100mA, I _B =10mA
DC current gain	hfe	120	_	560	_	Vce=2V, Ic=1mA
Transition frequency	f⊤	_	400	_	MHz	VcE=10V, IE=-10mA, f=100MHz
Output capacitance	Cob	_	2	_	pF	Vcb=10V, IE=0A, f=1MHz

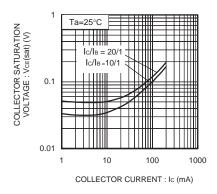
^{*1} Pw=1mS Single pulse *2 Each terminal mounted on a recommended land

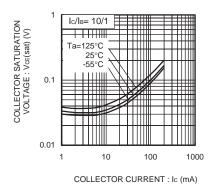
•Electrical characteristics curves

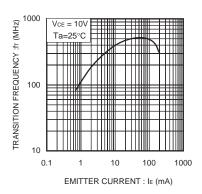


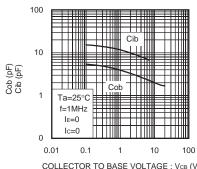












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