# Switching Diode

UMN11N Data Sheet

#### Applications

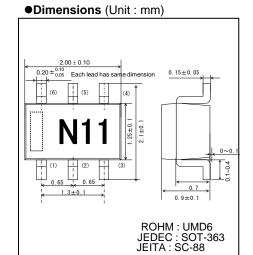
Ultra high speed switching

#### Features

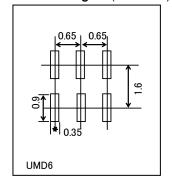
- 1) Small mold type. (UMD6)
- 2) High reliability.

#### Construction

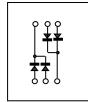
Silicon epitaxial planar



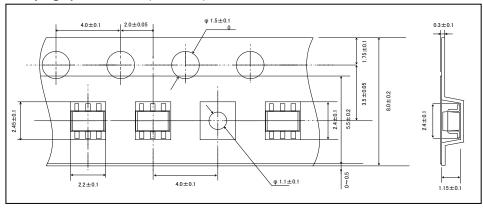
#### ●Land size figure (Unit : mm)



●Structure



#### ●Taping specifications (Unit : mm)



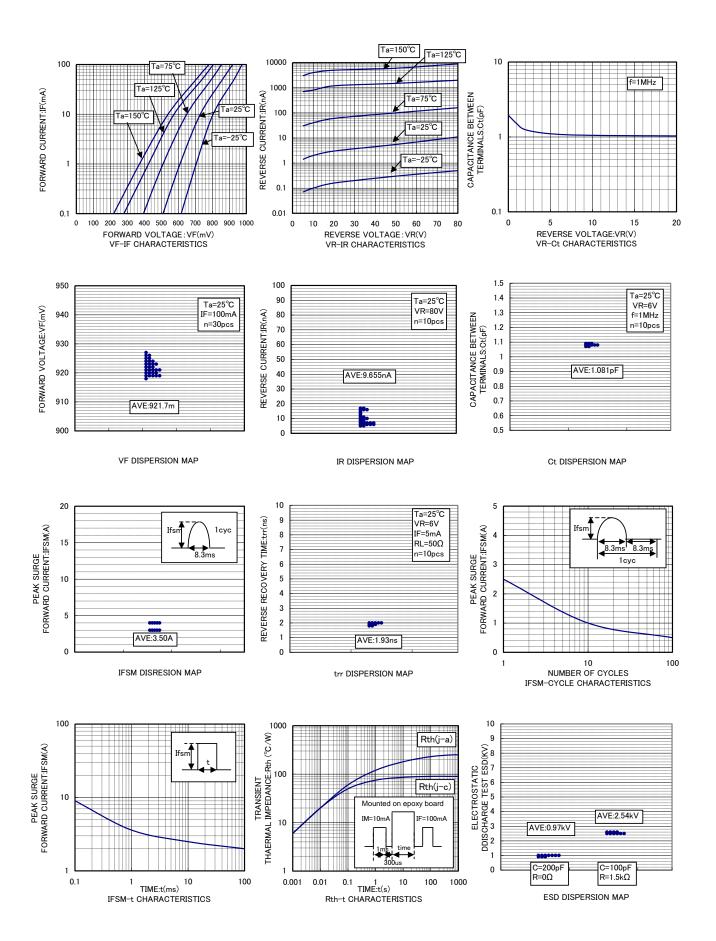
dot (year week factory)

#### ● Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit				
Reverse voltage (repetitive peak)	$V_{RM}$	80	V				
Reverse voltage (DC)	$V_R$	80	V				
Forward current (Single)	I <sub>FM</sub>	300	mA				
Average rectified forward current (single)	lo	100	mA				
Surge current (t=1us)	I <sub>surge</sub>	4	Α				
Power dissipation	Pd	150	mW				
Junction temperature	Tj	150	°C				
Storage temperature Tstg		−55 to +150	°C				

#### ●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	$V_{F}$	-	-	1.2	V	I <sub>F</sub> =100mA
Reverse current	I <sub>R</sub>	-	-	0.1	μA	V <sub>R</sub> =70V
Capacitance between terminals	Ct	-	-	3.5	pF	V <sub>R</sub> =6V , f=1MHz
Reverse recovery time	trr	-	-	4	ns	$V_R$ =6 $V$ , IF=5 $mA$ , RL=50 $\Omega$



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