

# Switching diode

## EMN11

### ●Application

Ultra high speed switching

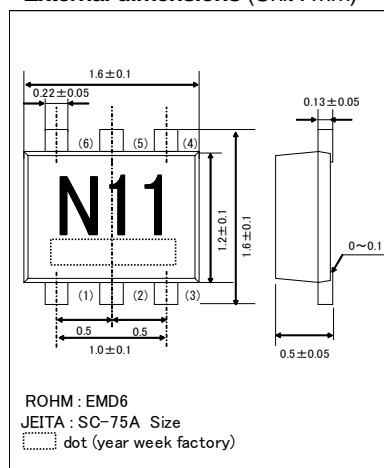
### ●Features

- 1) Ultra small mold type. (EMD6)
- 2) High reliability

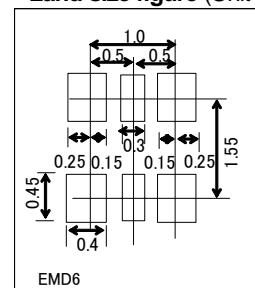
### ●Construction

Silicon epitaxial planar

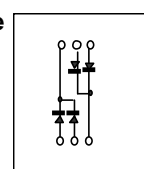
### ●External dimensions (Unit : mm)



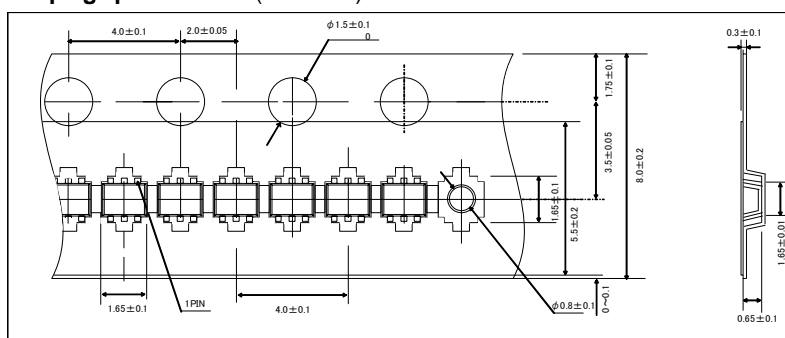
### ●Land size figure (Unit : mm)



### ●Structure



### ●Taping specifications (Unit : mm)



### ●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)	$I_{FM}$	300	mA
Average rectified forward current	$I_o$	100	mA
Surge current (t=1us) (Single)	$I_{surge}$	4	A
Power dissipation	$P_d$	150	mW/Total *
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-55 to +150	°C

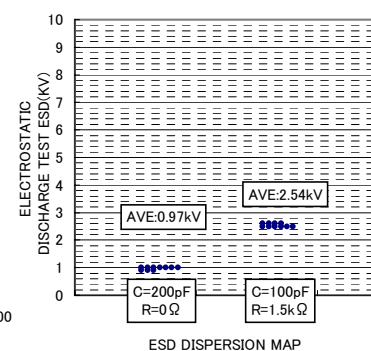
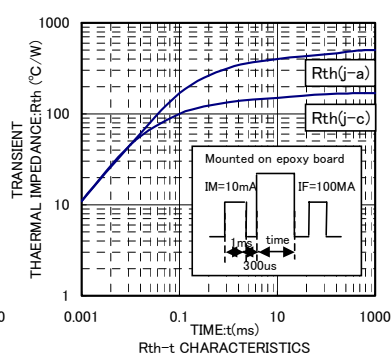
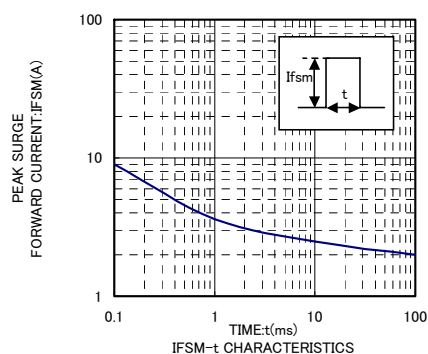
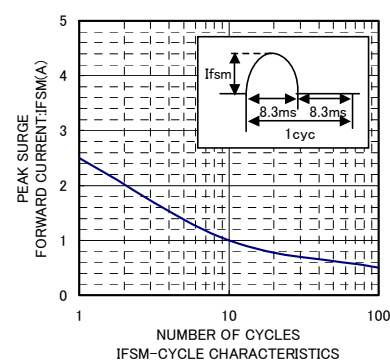
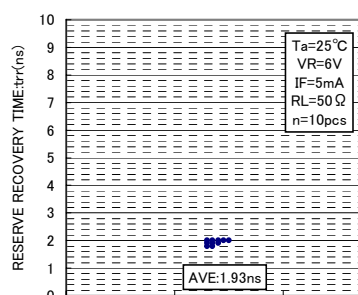
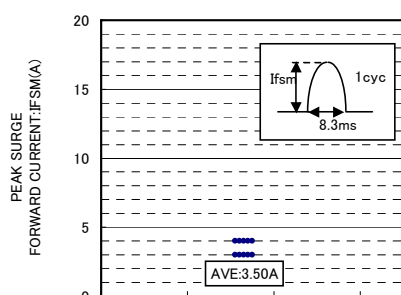
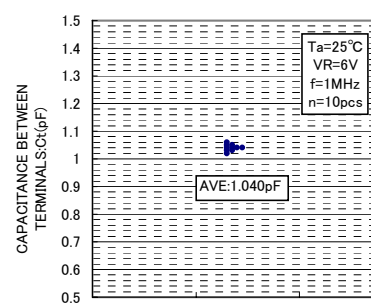
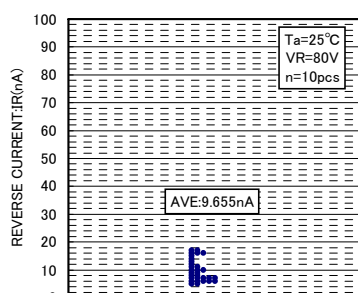
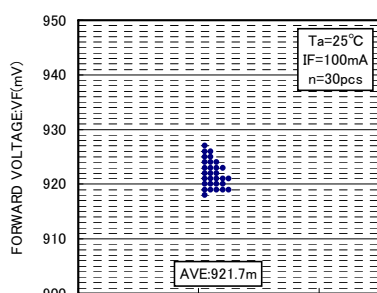
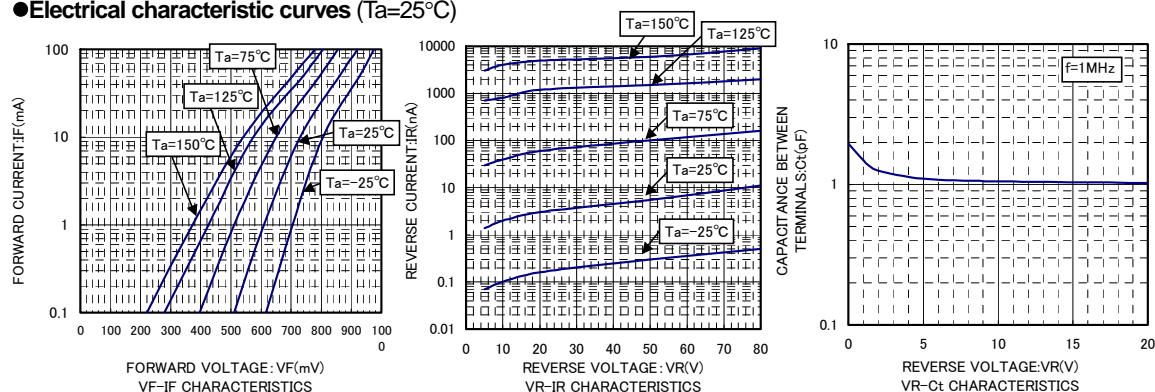
\* $P_d = 120mW$  when only 1 circuit is operating. CONDITION = Each terminal mounted on a recommended land pattern.(0.35×0.9mm)

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

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	-	1.2	V	$I_F=100mA$
Reverse current	$I_R$	-	-	0.1	μA	$V_R=70V$
Capacitance between terminals	$C_t$	-	-	3.5	pF	$V_R=6V, f=1MHz$
Reverse recovery time	$t_{rr}$	-	-	4	ns	$V_R=6V, I_F=5mA, R_L=50\Omega$

## Diodes

## ●Electrical characteristic curves (Ta=25°C)



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