

# Switching diode

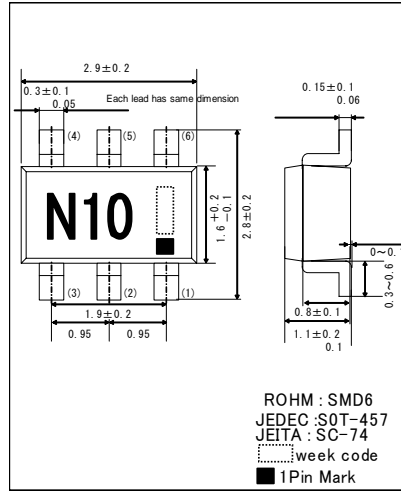
## IMN10

●Application  
Ultra high speed switching

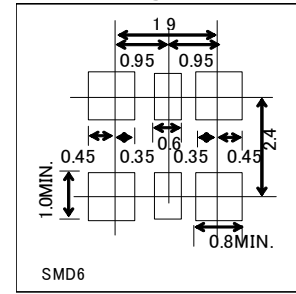
●Features  
1) Small mold type. (SMD6)  
2) High reliability

●Construction  
Silicon epitaxial planar

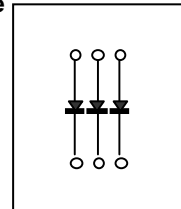
●External dimensions (Unit : mm)



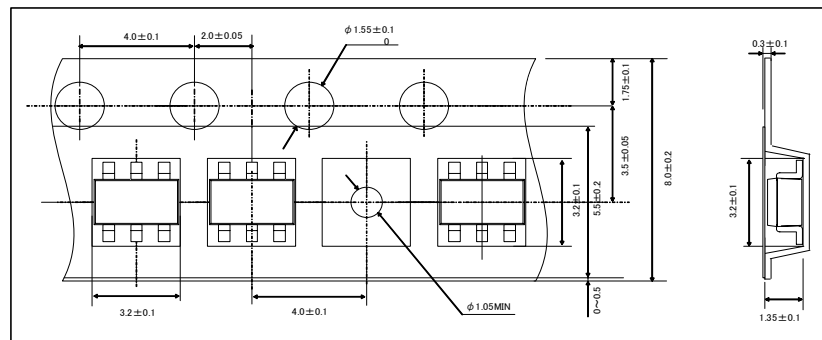
●Land size figure (Unit : mm)



●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
Forward current (Double)	$I_{FM}$	450	mA
Average rectified forward current (single)	$I_o$	100	mA
Surge current (t=1us)	$I_{surge}$	4	A
Power dissipation (TOTAL)(*1)	$P_d$	300	mW
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-55 to +150	°C

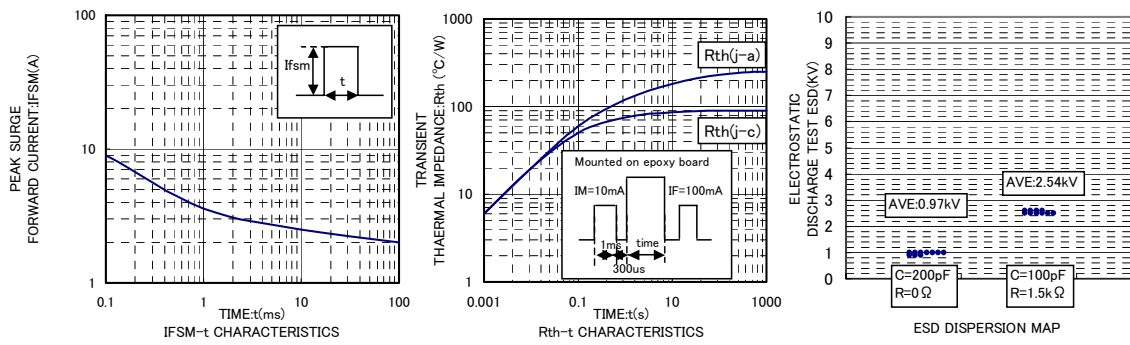
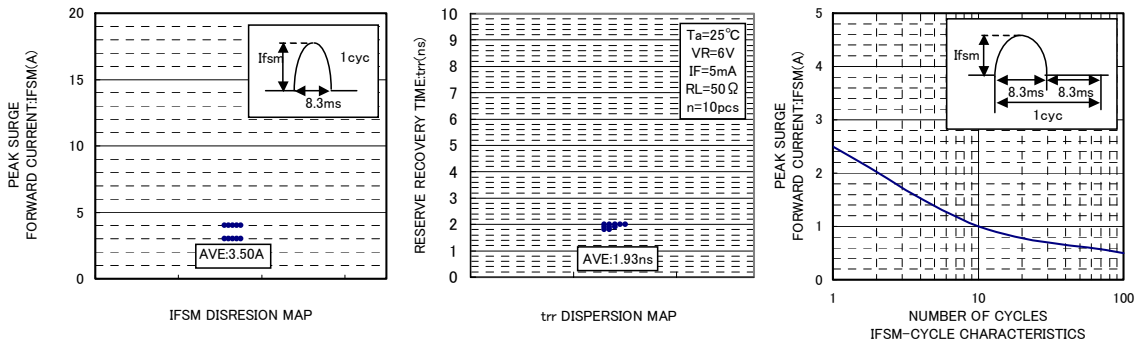
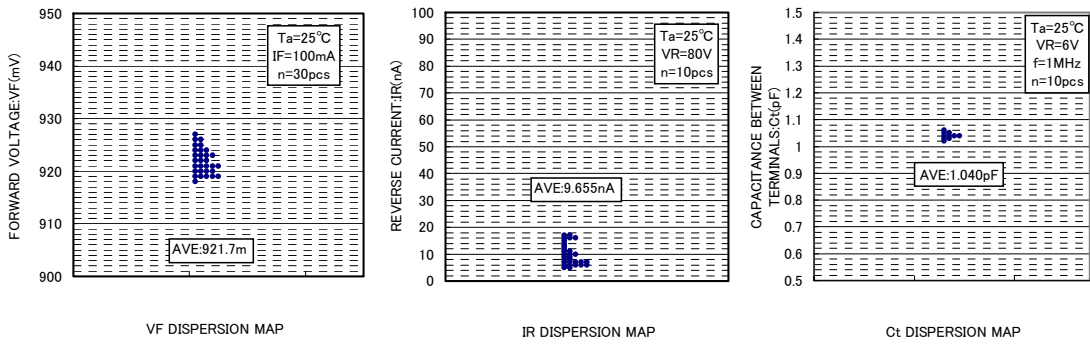
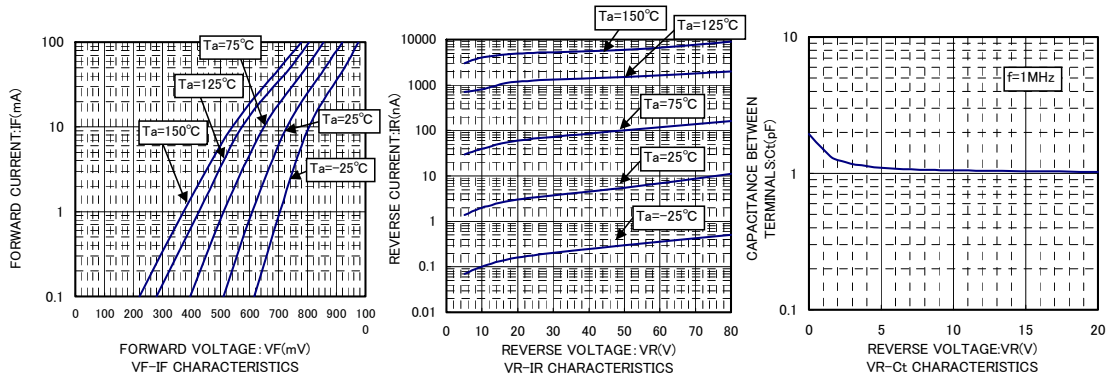
(\*1) Not exceed 200mW per element.

●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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