

# Switching Diode

DA227Y

●Applications

Ultra high speed switching

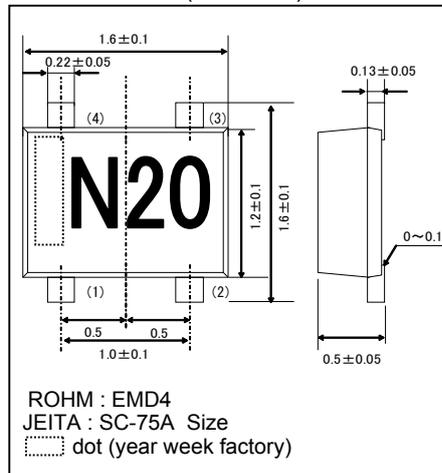
●Features

- 1) Ultra small mold type. (EMD4)
- 2) High reliability.

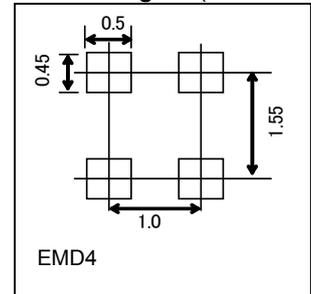
●Construction

Silicon epitaxial planar

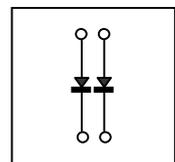
●Dimensions (Unit : mm)



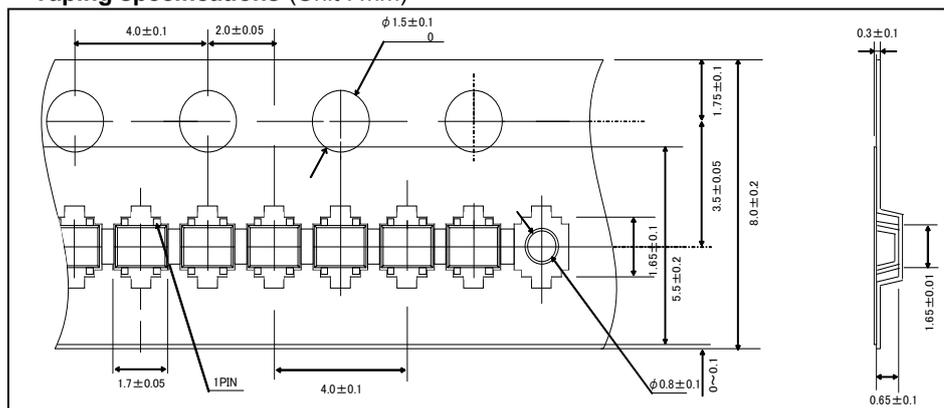
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

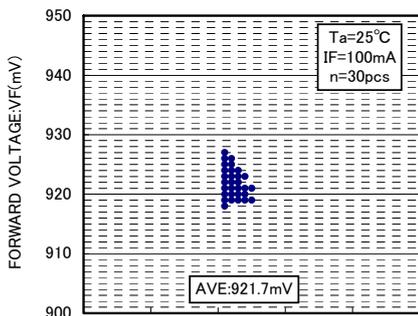
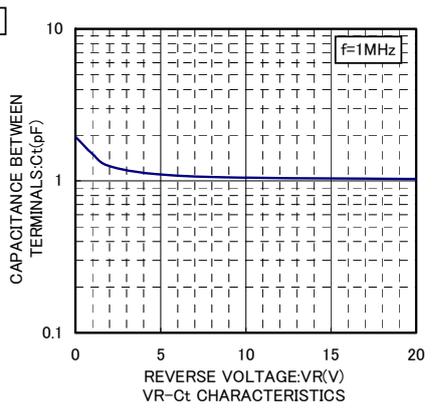
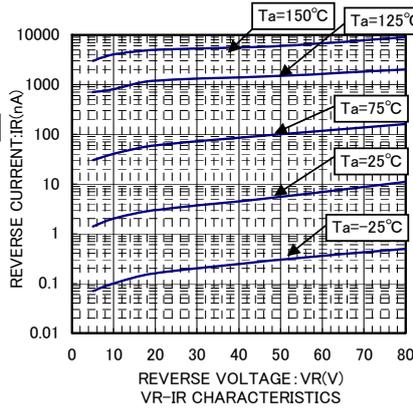
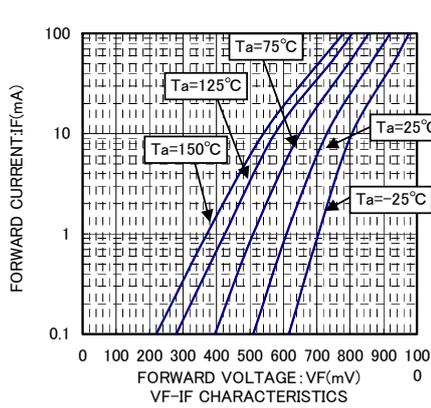
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	$V_{RM}$	80	V
Reverse voltage (DC)	$V_R$	80	V
Forward current (Single)	$I_{FM}$	300	mA
Average rectified forward current (Single)	$I_o$	100	mA
Surge current (t=1us) (Single)	$I_{surge}$	4	A
Power dissipation (*1)	$P_d$	150	mW/Total
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-55 to +150	°C
Rated in slash put frequency	$f$	100	MHz

(\*1)  $P_d=120mW$  when only 1 circuit is operating.

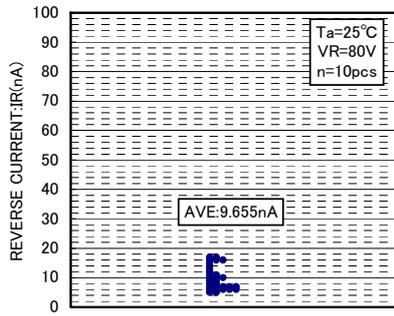
CONDITION = Each terminal mounted on a recommended land pattern. (0.35x0.9mm)

●Electrical characteristics (Ta=25°C)

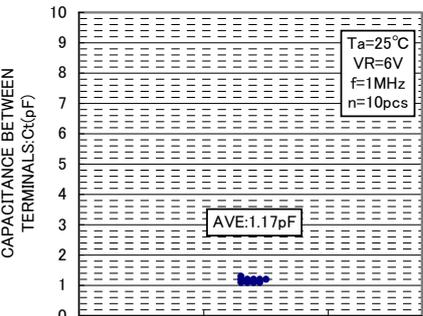
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	-	1.2	V	$I_F=100mA$
Reverse current	$I_R$	-	-	0.1	$\mu A$	$V_R=70V$
Capacitance between terminals	$C_t$	-	-	3.5	pF	$V_R=6V, f=1MHz$
Reverse recovery time	$t_{rr}$	-	-	4	ns	$V_R=6V, I_F=5mA, R_L=50\Omega$



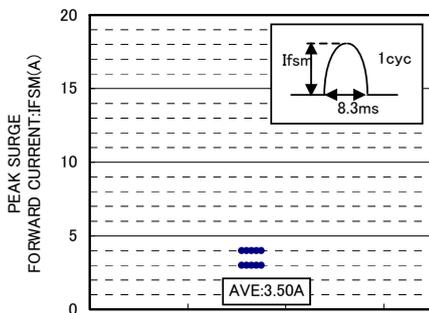
VF DISPERSION MAP



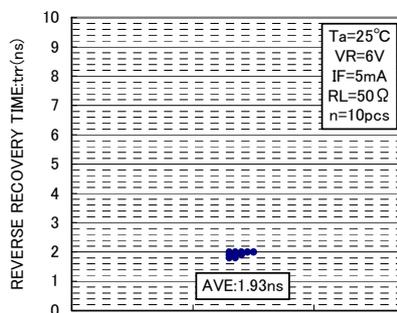
IR DISPERSION MAP



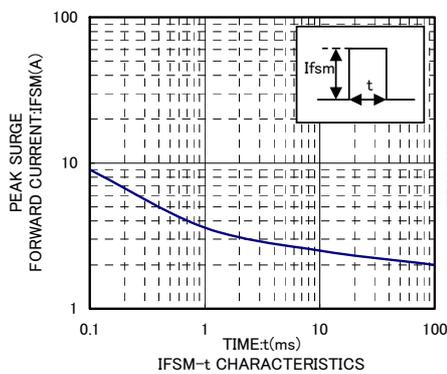
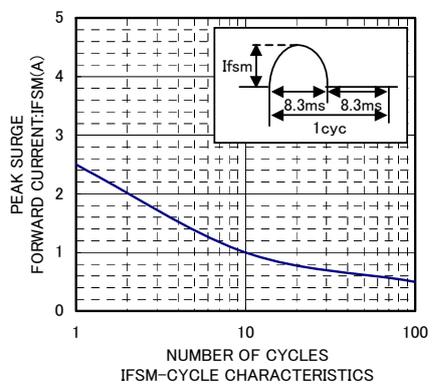
Ct DISPERSION MAP



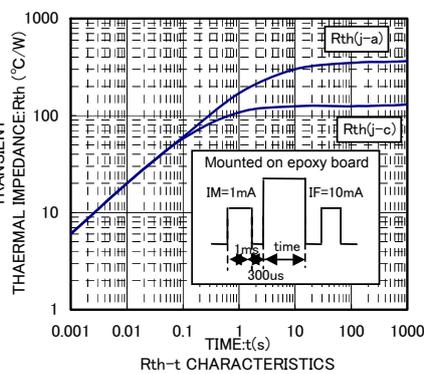
IFSM DISERSION MAP



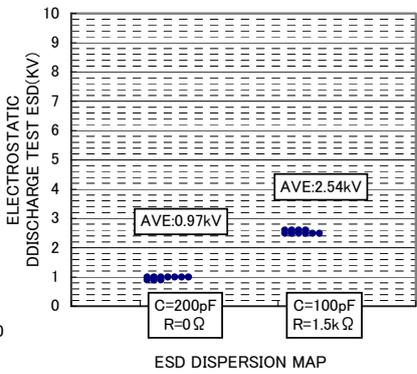
trr DISPERSION MAP



IFSM-t CHARACTERISTICS



Rth-t CHARACTERISTICS



ESD DISPERSION MAP

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