Switching diode

DA227Y

●Applications

Ultra high speed switching

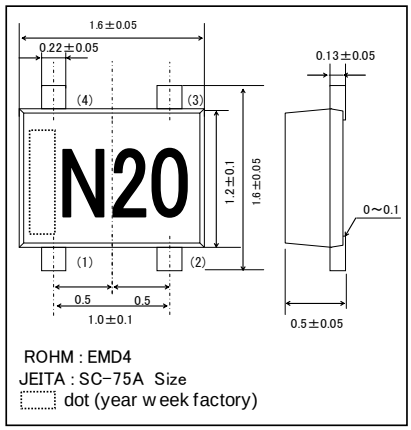
●Features

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

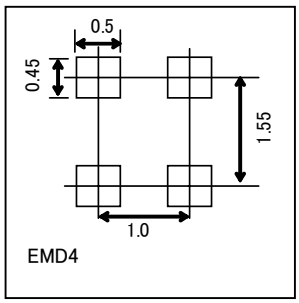
●Construction

Silicon epitaxial planar

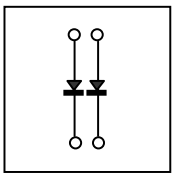
● Dimensions (Unit : mm)



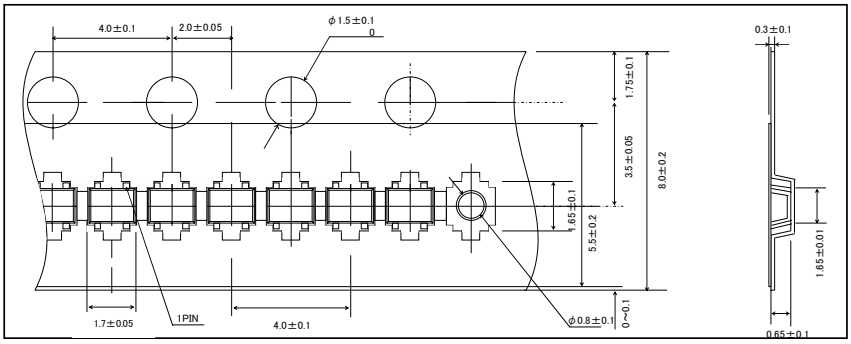
● Land size figure (Unit : mm)



● Structure



● Taping specifications(Unit : mm)



●Absolute maximum ratings (Ta=25°C)

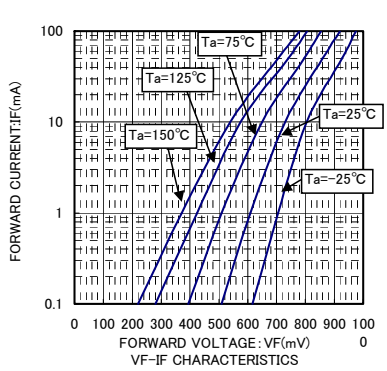
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	80	V
Reverse voltage (DC)	V_R	80	V
Forward current (Single)	I_{FM}	300	mA
Average rectified forward current (Single)	Io	100	mA
Surge current（t=1us）(Single)	I_{surge}	4	A
Power dissipation（*1）	Pd	150	mW/Total
Junction temperature	Tj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

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

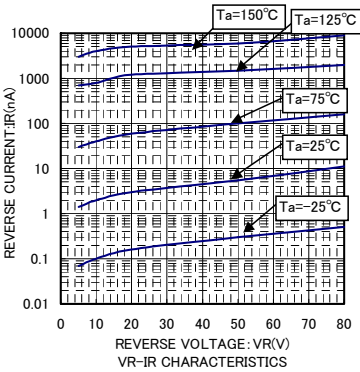
●Electrical characteristics (Ta=25°C)

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	Ct	-	-	3.5	pF	V_R=6V , f=1MHz
Reverse recovery time	trr	-	-	4	ns	VR=6V , IF=5mA , RL=50Ω

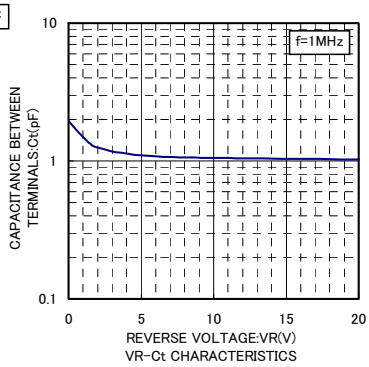
●**Electrical characteristic curves** (Ta=25°C)



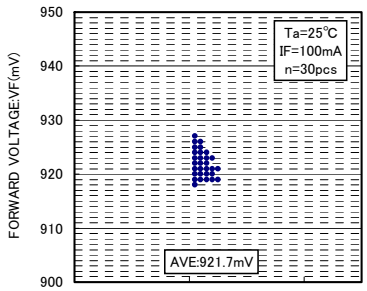
VF-IF CHARACTERISTICS



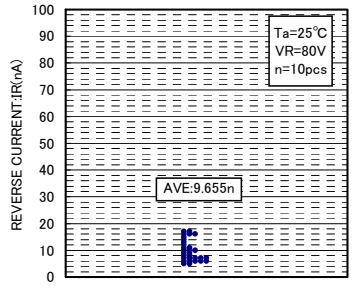
VR-IR CHARACTERISTICS



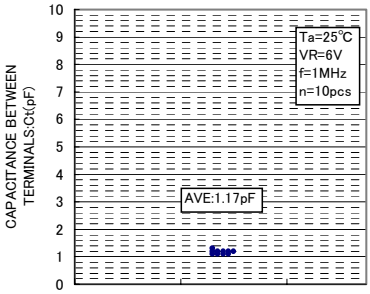
VR-Ct CHARACTERISTICS



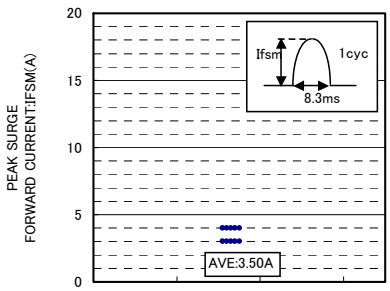
VF DISPERSION MAP



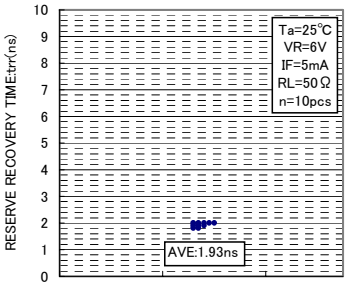
IR DISPERSION MAP



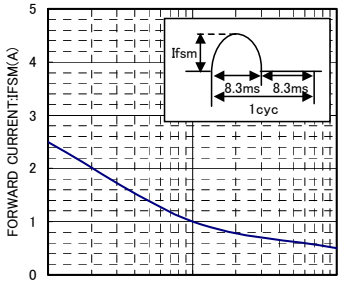
Ct DISPERSION MAP



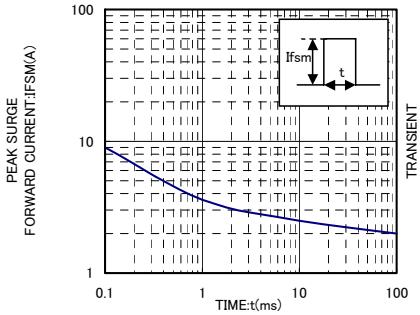
IFSM DISRESION MAP



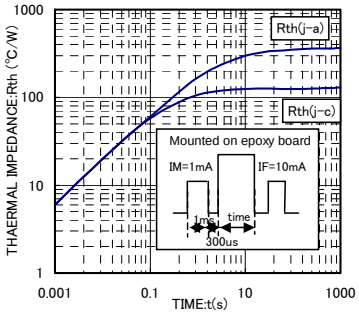
trr DISPERSION MAP



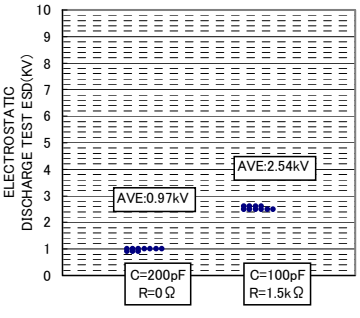
IFSM-CYCLE CHARACTERISTICS



IFSM-t CHARACTERISTICS



Rth-t CHARACTERISTICS



ESD DISPERSION MAP

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