Fast Recovery Diode

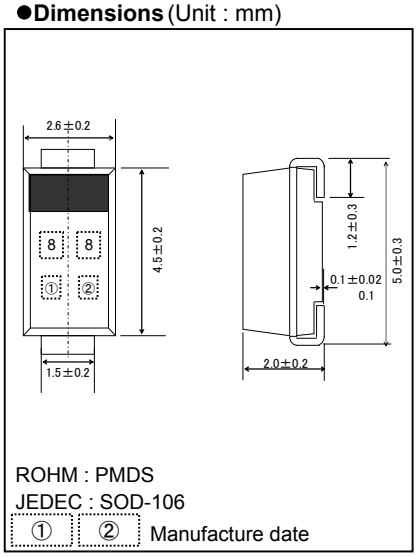
RF101L4S

●**Applications**
General rectification

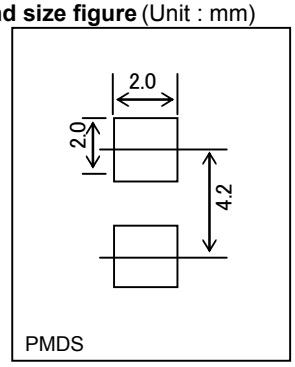
●**Features**
1)Small power mold type. (PMDS)
2)Ultra low V_F
3)Ultra high switching speed
4)Low switching loss

●**Construction**
Silicon epitaxial planar

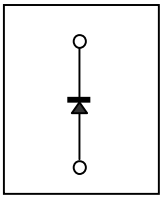
●**Dimensions** (Unit : mm)



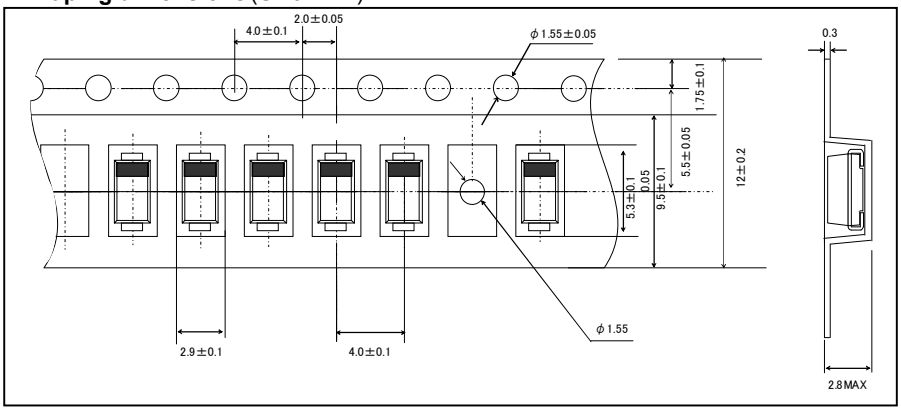
●**Land size figure** (Unit : mm)



●**Structure**



●**Taping dimensions** (Unit : mm)



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

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	V_{RM}	400	V
Reverse voltage (DC)	V_R	400	V
Average rectified forward current (*1)	Io	1	A
Forward current surge peak (60Hz・1cyc)	I_{FSM}	25	A
Junction temperature	Tj	150	°C
Storage temperature	Tstg	−55 to +150	°C

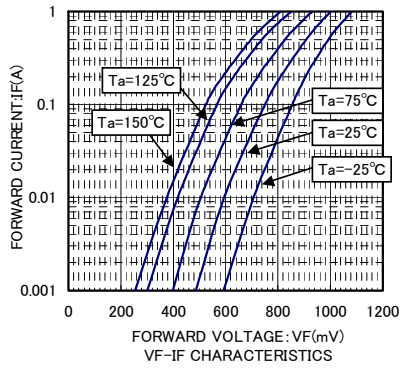
(*1)Mounted on epoxy board. 180°Half sine wave

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

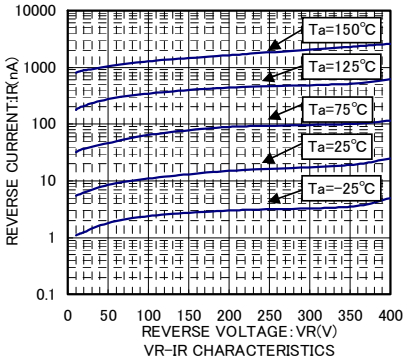
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	1.25	V	I_F=1.0A
Reverse current	I_R	-	-	10	μA	V_R=400V
Reverse recovery time	trr	-	-	25	ns	I_F=0.5A,I_R=1A,Irr=0.25*I_R

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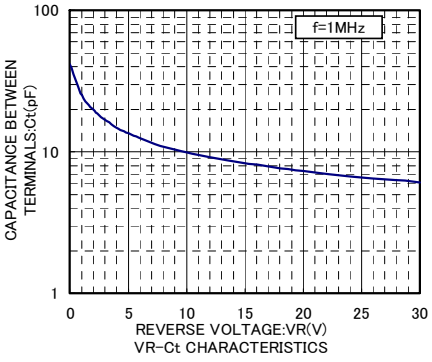
●Electrical characteristics curves



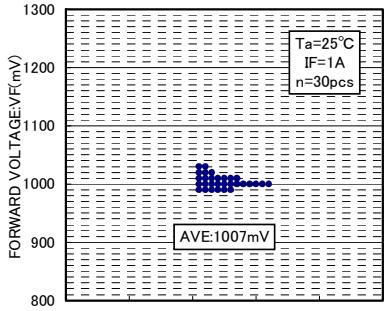
VF-IF CHARACTERISTICS



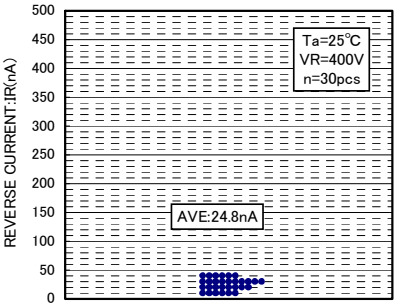
VR-IR CHARACTERISTICS



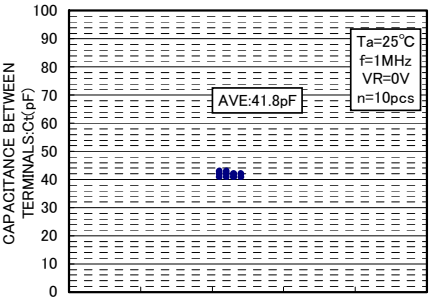
VR-Ct CHARACTERISTICS



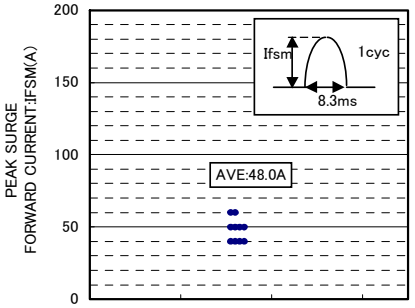
VF DISPERSION MAP



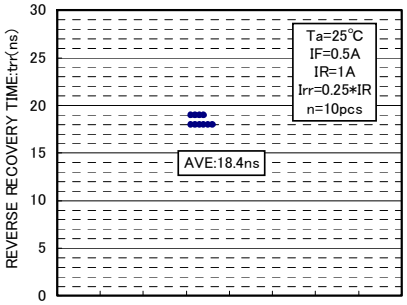
IR DISPERSION MAP



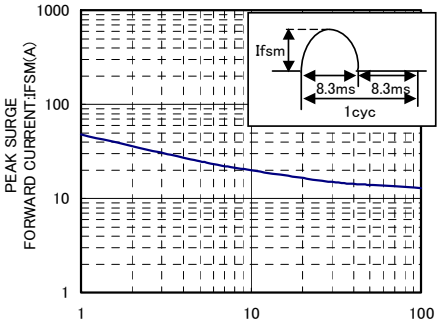
Ct DISPERSION MAP



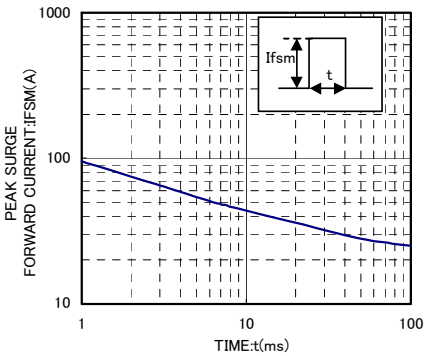
IFSM DISRESION MAP



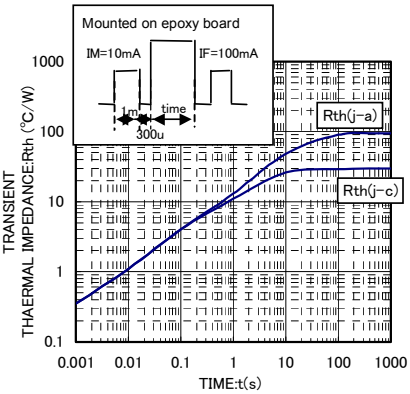
trr DISPERSION MAP



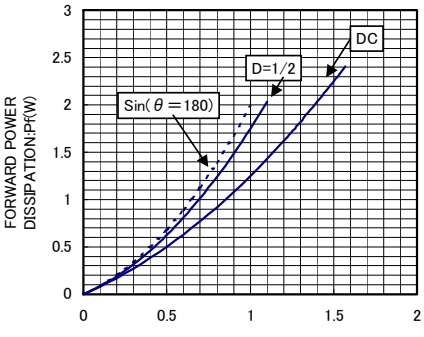
NUMBER OF CYCLES
IFSM-CYCLE CHARACTERISTICS



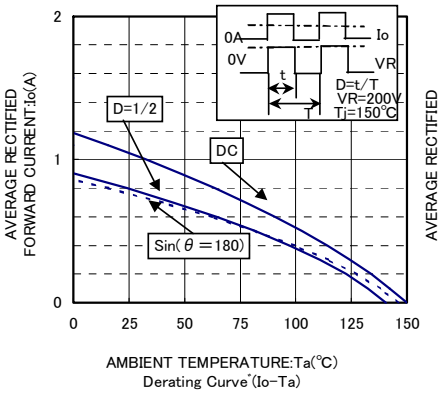
IFSM-t CHARACTERISTICS



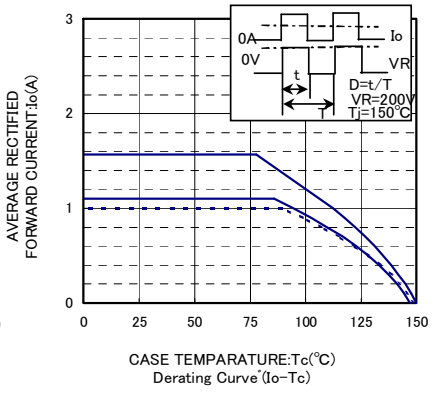
Rth-t CHARACTERISTICS



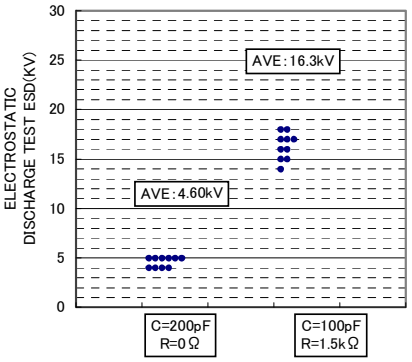
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Derating Curve(Io-Ta)



Derating Curve(Io-Tc)



ESD DISPERSION MAP

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