Fast recovery Diode

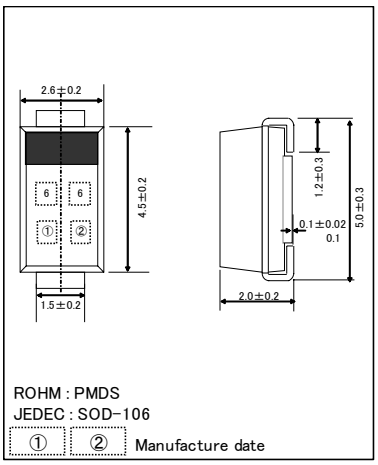
RF101L2S

●**Applications**
General rectification

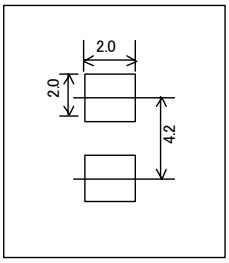
●**Features**
1) Small power mold type. (PMDS)
2) Ultra low V_F
3) Very fast recovery
4) Low switching loss

●**Construction**
Silicon epitaxial planar

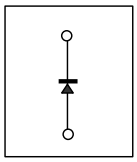
● **External dimensions** (Unit : mm)



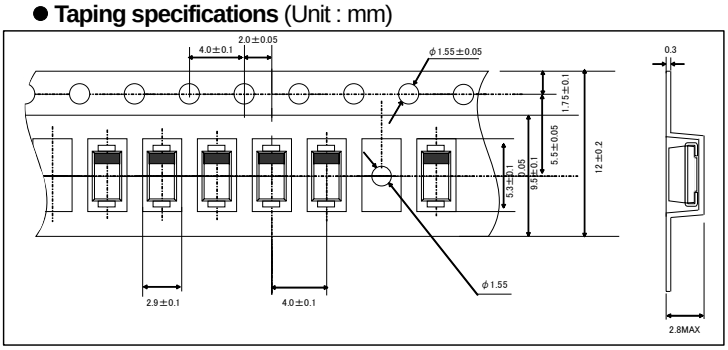
● **Land size figure** (Unit : mm)



●**Structure**



● **Taping specifications** (Unit : mm)



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

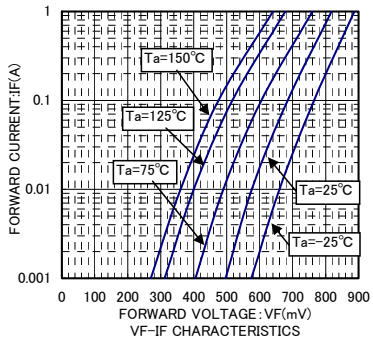
Parameter	Symbol	Limits	Unit
Rverse voltage (repetitive peak)	V_{RM}	200	V
Reverse voltage (DC)	V_R	200	V
Average rectified forward current (*1)	Io	1	A
Forward peak surge current (60Hz・1cyc.)	I_{FSM}	20	A
Junction temperature	Tj	150	℃
Storage temperature	Tstg	-55 to +150	℃

(*1)Tc=90℃max Mounted on epoxy board. 180°Half sine wave

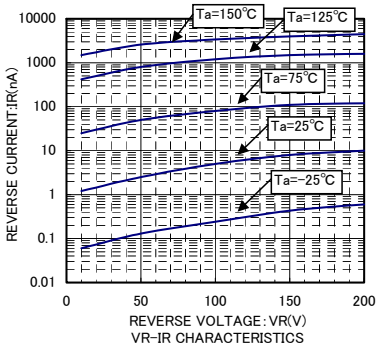
●**Electrical characteristics** (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	0.815	0.87	V	I_F=1.0A
Reverse current	I_R	-	0.01	10	μA	V_R=200V
Reverse recovery time	trr	-	12	25	ns	I_F=0.5A,I_R=1A,Irr=0.25*I_R

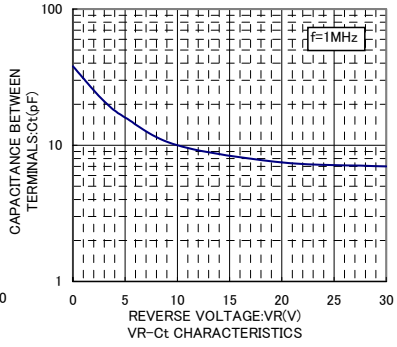
●**Electrical characteristic curves** (Ta=25°C)



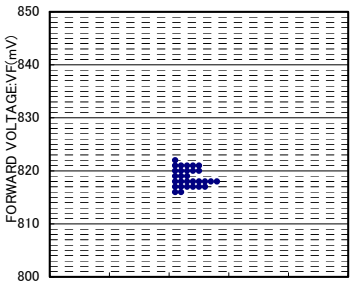
VF-IF CHARACTERISTICS



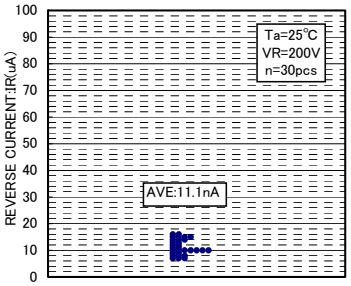
VR-IR CHARACTERISTICS



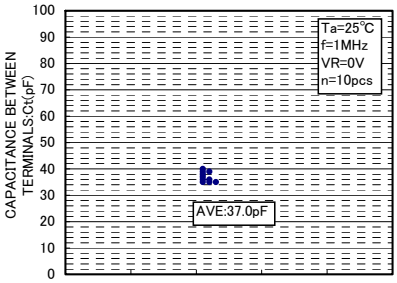
VR-Ct CHARACTERISTICS



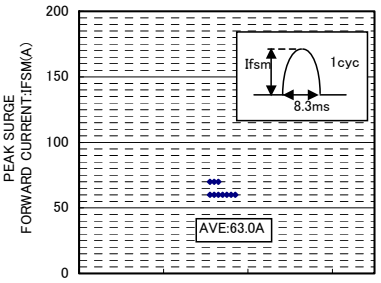
VF DISPERSION MAP



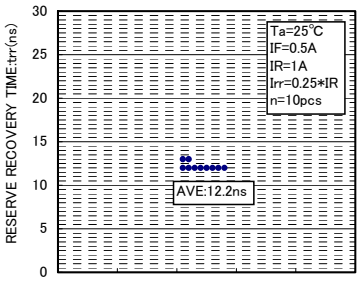
IR DISPERSION MAP



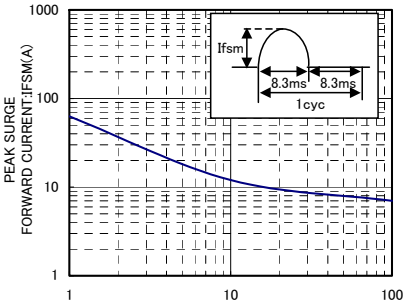
Ct DISPERSION MAP



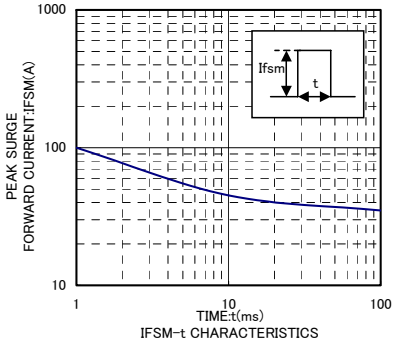
IFSM DISRESION MAP



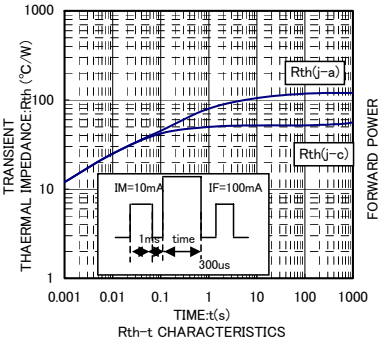
trr DISPERSION MAP



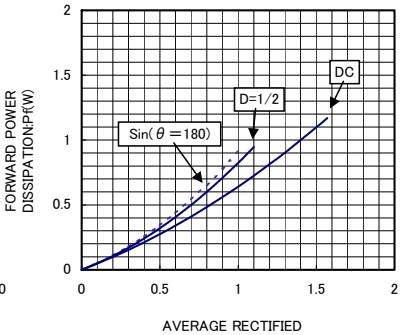
IFSM-CYCLE CHARACTERISTICS



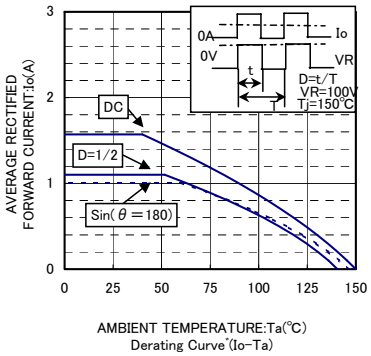
IFSM-t CHARACTERISTICS



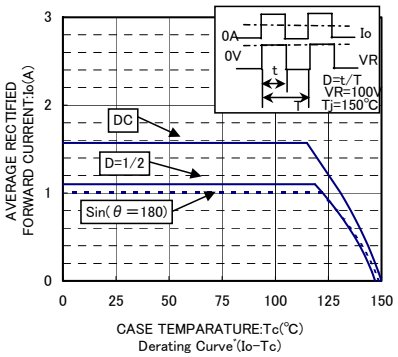
Rth-t CHARACTERISTICS



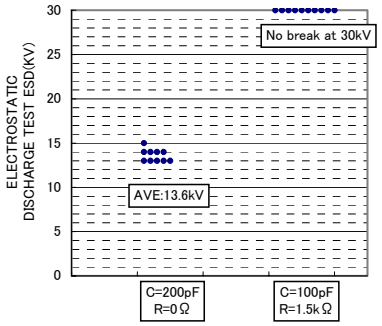
Io-Pf CHARACTERISTICS



Derating Curve(Io-Ta)



Derating Curve(Io-Tc)



ESD DISPERSION MAP

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