Super Fast Recovery Diode

RF08L6S

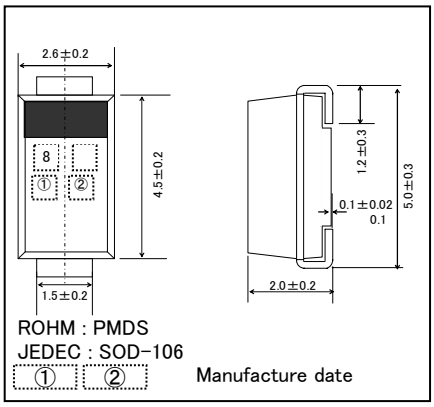
●Series
Standard Fast Recovery

●Applications
General rectification

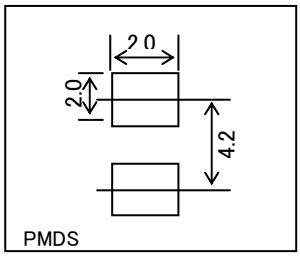
●Features
1)Small power mold type.（PMDS）
2)high switching speed
3)Low forward voltage

●Construction
Silicon epitaxial planar

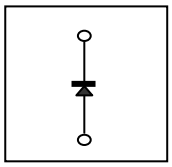
●Dimensions（Unit : mm）



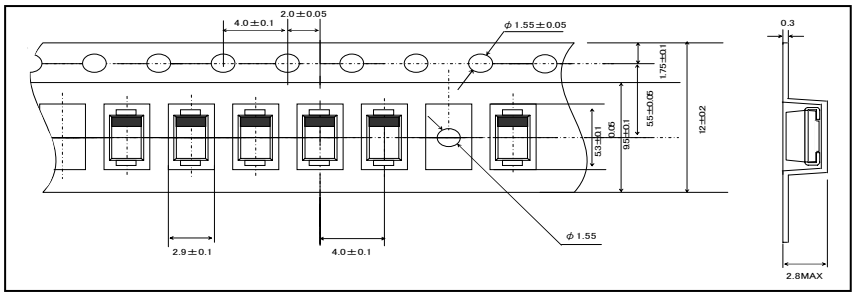
●Land size figure (Unit : mm)



●Structure



●Taping dimensions（Unit : mm）



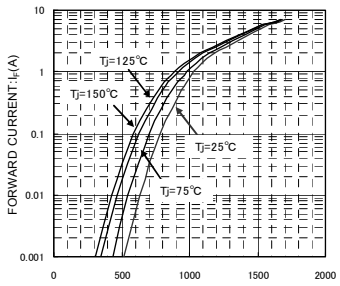
●Absolute maximum ratings（Tl=25℃）

Parameter	Symbol	Conditions		Limits	Unit
Repetitive peak Reverse voltage	V_{RM}	D≦0.5		600	V
Reverse voltage	V_R	Direct voltage		600	V
Average rectified forward current	Io	Glass epoxy substrate mounted		0.8	A
Forward current surge peak	I_{FSM}	60Hz half sin wave, Non-repetitive one cycle peak value, Tj=25℃	Ta=25℃	20	A
			Tl=100℃		
Junction temperature	Tj			150	℃
Storage temperature	Tstg			-55to+150	℃

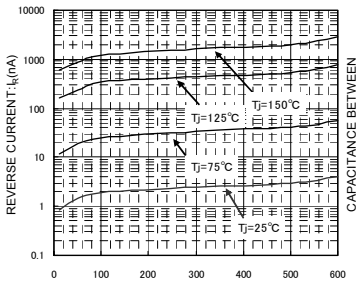
●Electrical characteristics（Tj=25℃）

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	V_F	I_F=0.8A	—	1	1.3	V
Reverse current	I_R	V_R=600V	—	0.01	10	μA
Reverse recovery time	trr	I_F=0.5A,I_R=1A,Irr=0.25×I_R	—	50	70	ns
Thermal Resistance	Rth(j-l)	junction to lead	—	—	23	℃／W

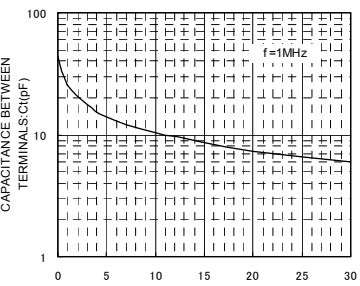
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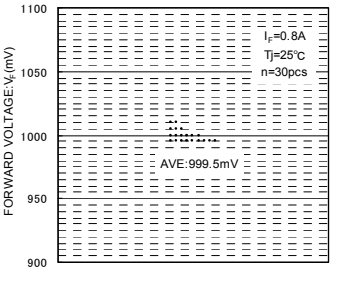
V_F-I_F CHARACTERISTICS



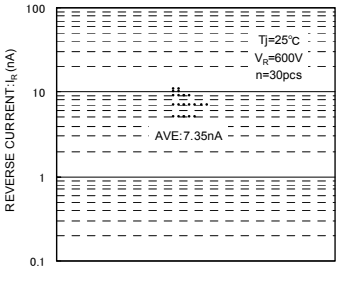
V_R-I_R CHARACTERISTICS



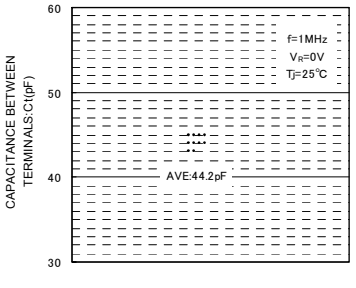
V_R-Ct CHARACTERISTICS



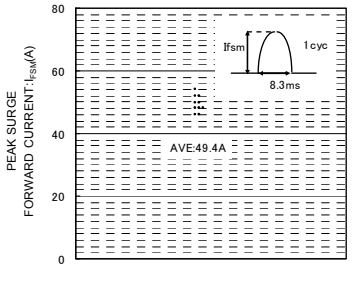
V_F DISPERSION MAP



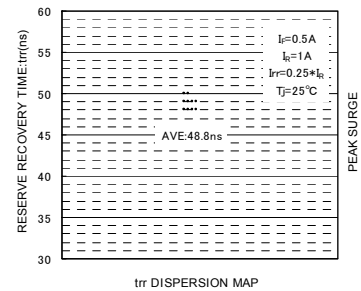
I_R DISPERSION MAP



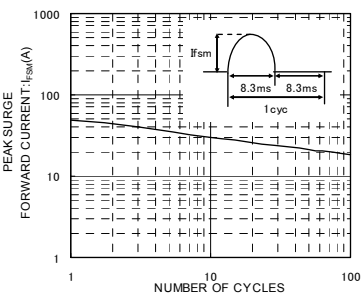
Ct DISPERSION MAP



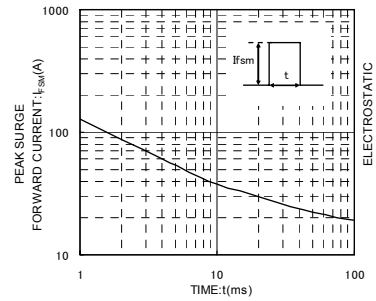
I_{FSM} DISRESION MAP



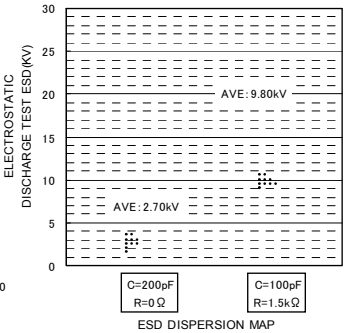
trr DISPERSION MAP



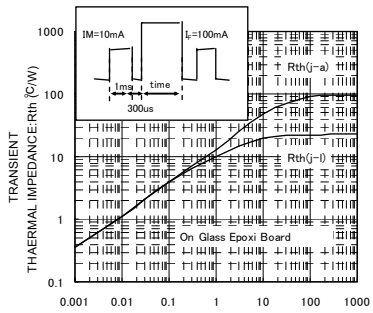
I_{FSM}-CYCLE CHARACTERISTICS



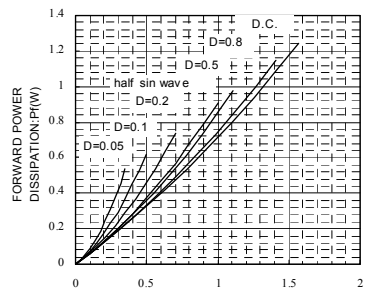
I_{FSM}-t CHARACTERISTICS



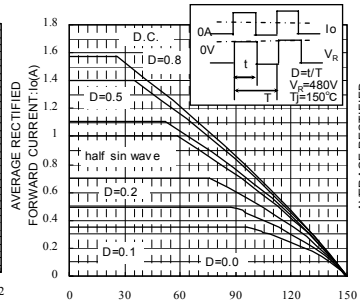
ESD DISPERSION MAP



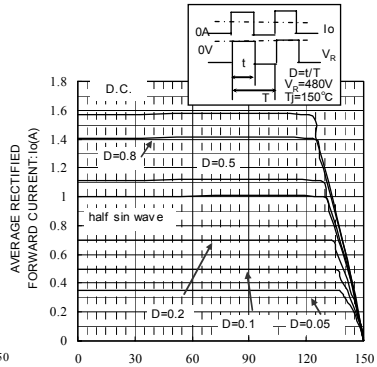
Rth-t CHARACTERISTICS



Io-Pf CHARACTERISTICS



Derating Curve (Io-Ta)



Derating Curve (Io-Tl)

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