

●Series

Standard Fast Recovery

●Application

General rectification

●Features

1) Small power mold type.
(PMDS)

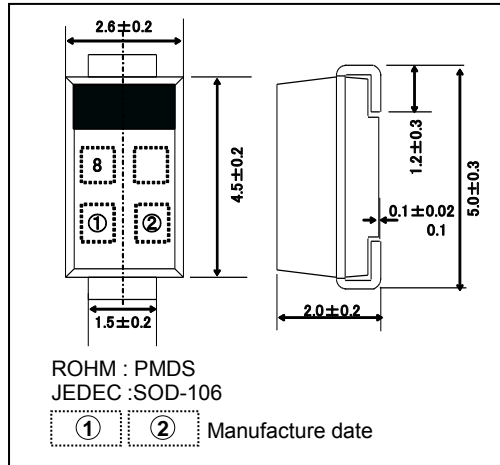
2) high switching speed

3) Low forward voltage

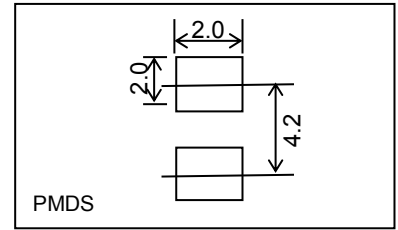
●Construction

Silicon epitaxial planar

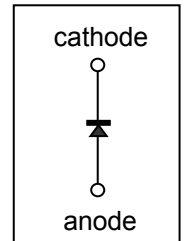
●Dimensions (Unit : mm)



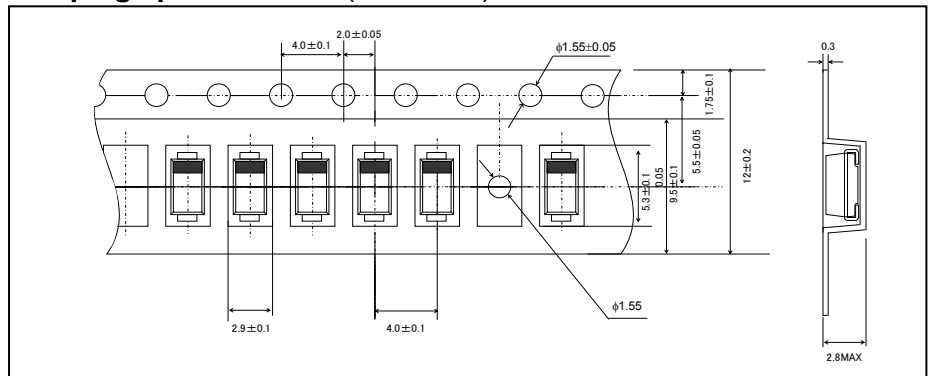
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)



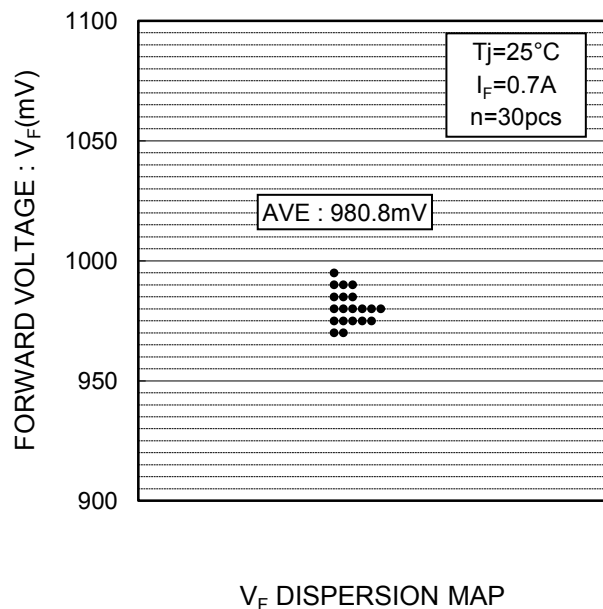
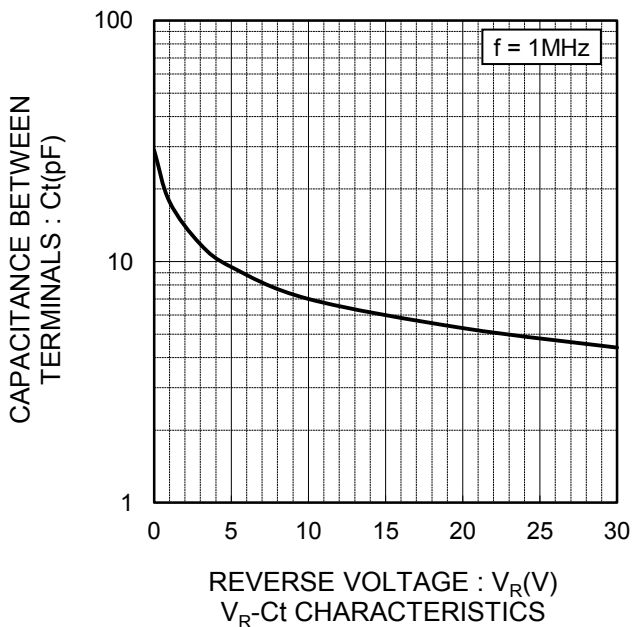
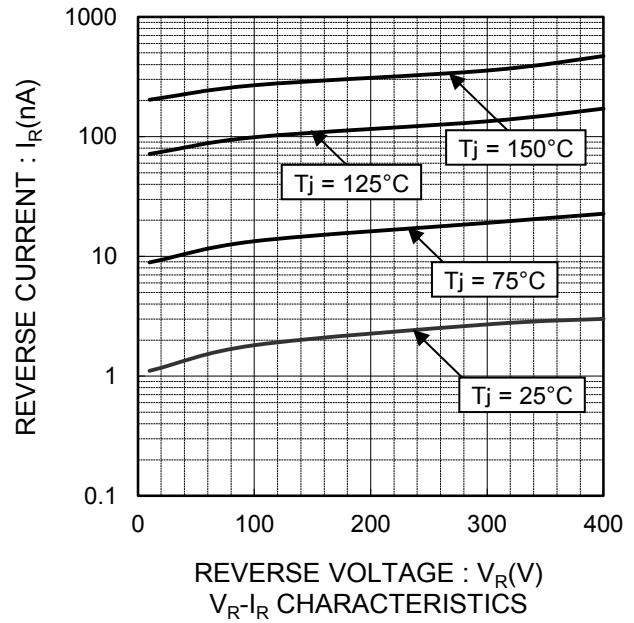
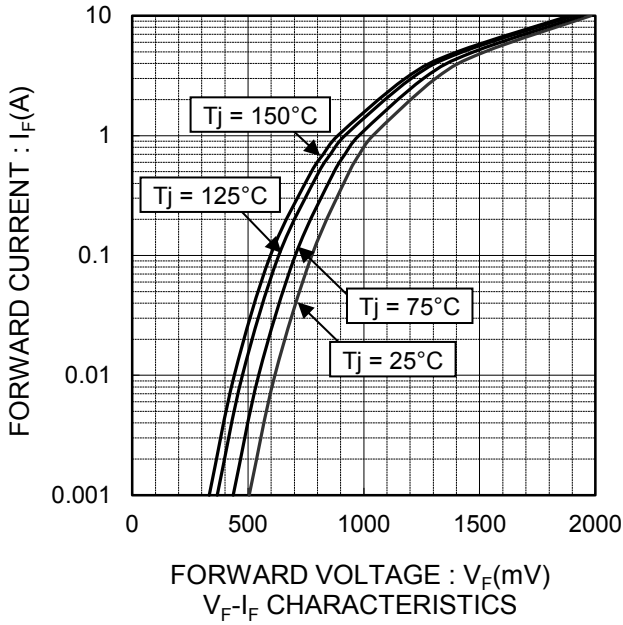
●Absolute maximum ratings (Tl= 25°C)

Parameter	Symbol	Limits	Unit	Conditions
Repetitive peak reverse voltage	V_{RM}	400	V	$D \geq 0.5$
Reverse voltage	V_R	400	V	Direct voltage
Average rectified forward current	I_o	0.7	A	Glass epoxy substrate mounted $T_l = 120^\circ C$
Forward current surge peak	I_{FSM}	15	A	60Hz half sin wave, Non-repetitive one cycle peak value, $T_j = 25^\circ C$
Junction temperature	T_j	150	$^\circ C$	
Storage temperature	T_{stg}	-55 to +150	$^\circ C$	

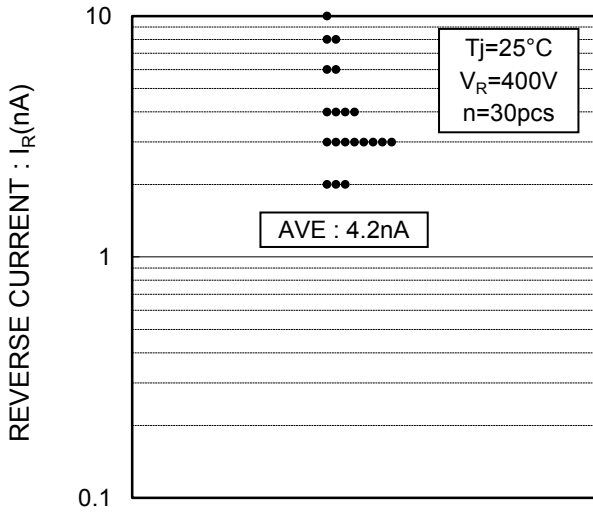
●Electrical characteristics (Tj = 25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	1	1.25	V	$I_F = 0.7A$
Reverse current	I_R	-	0.01	10	μA	$V_R = 400V$
Reverse recovery time	t_{rr}	-	20	25	ns	$I_F = 0.5A, I_R = 1A, I_{rr} = 0.25 \times I_R$
Thermal resistance	$R_{th(j-l)}$	-	0	23	pF	junction to lead

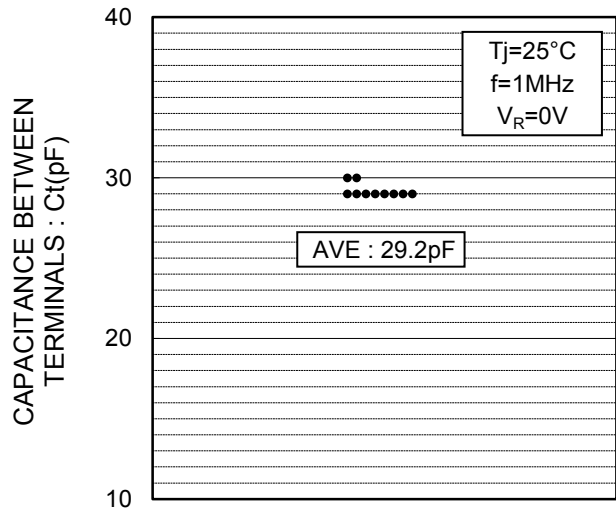
●Electrical characteristic curves



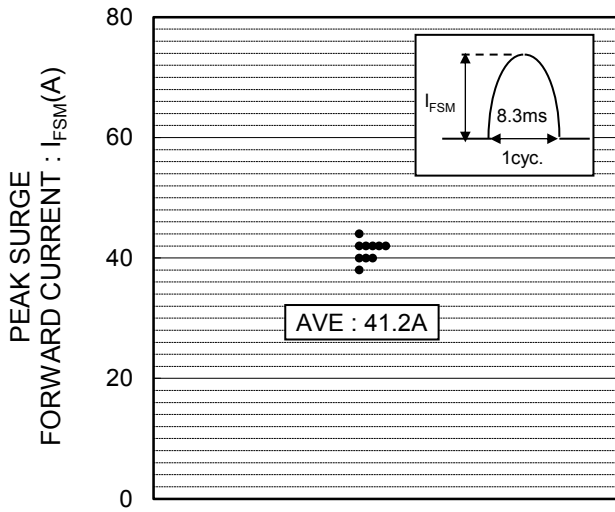
●Electrical characteristic curves



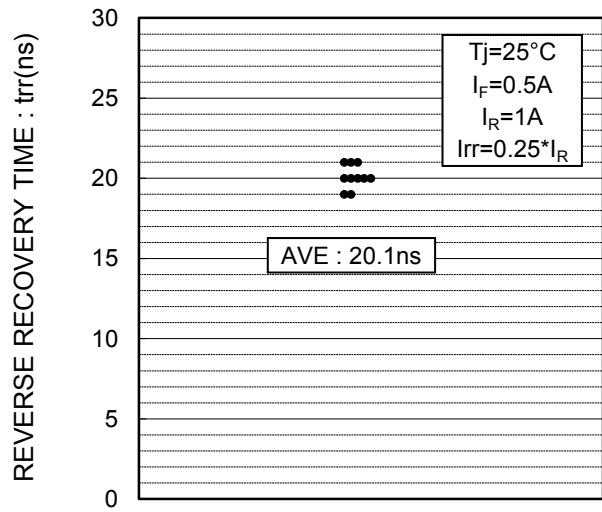
I_R DISPERSION MAP



C_t DISPERSION MAP

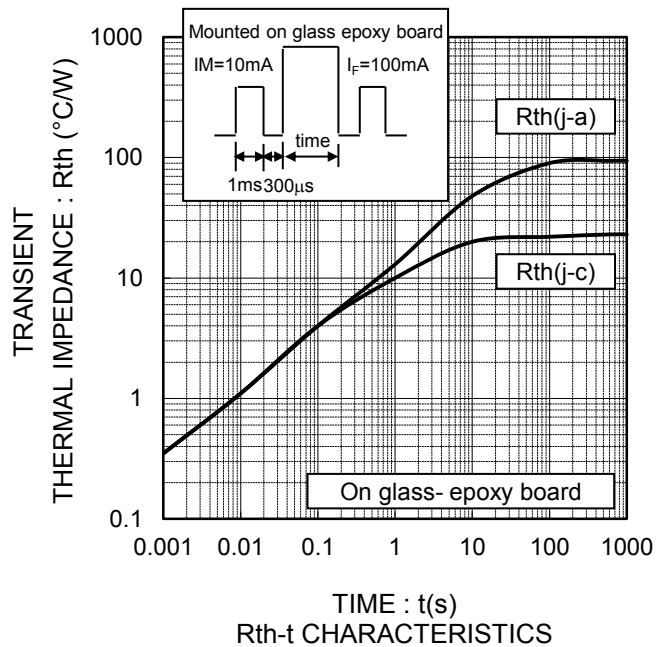
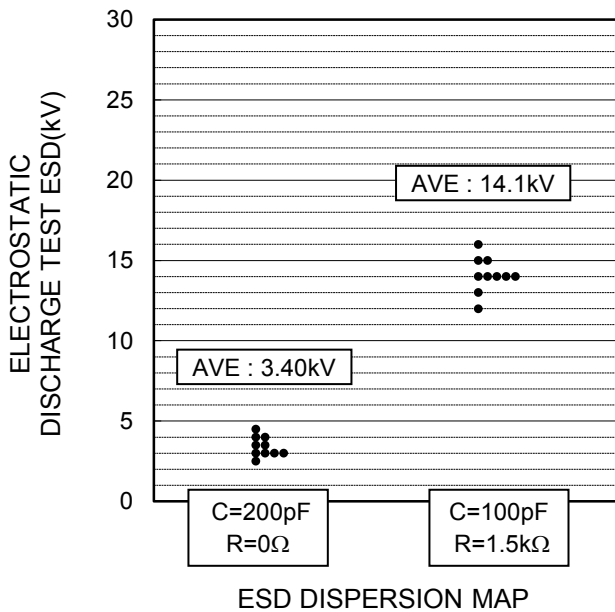
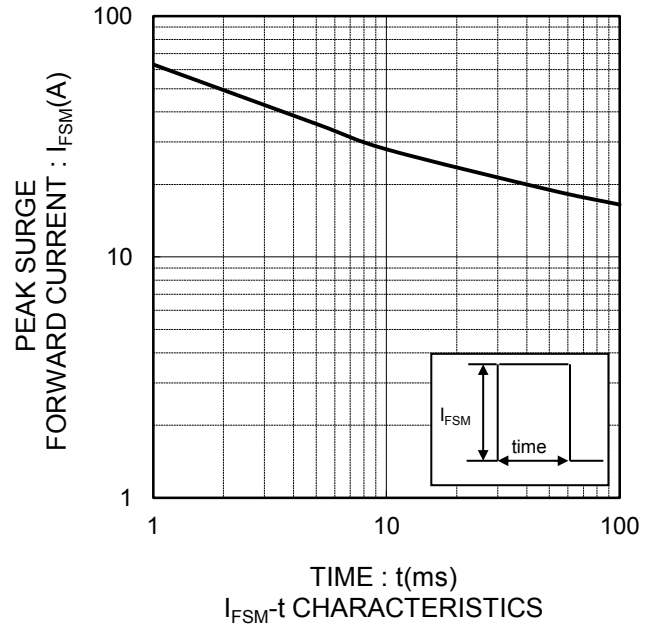
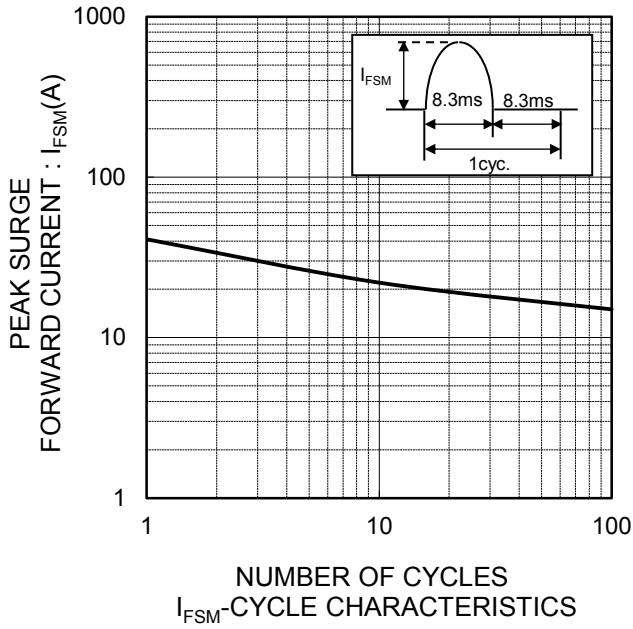


I_{FSM} DISPERSION MAP

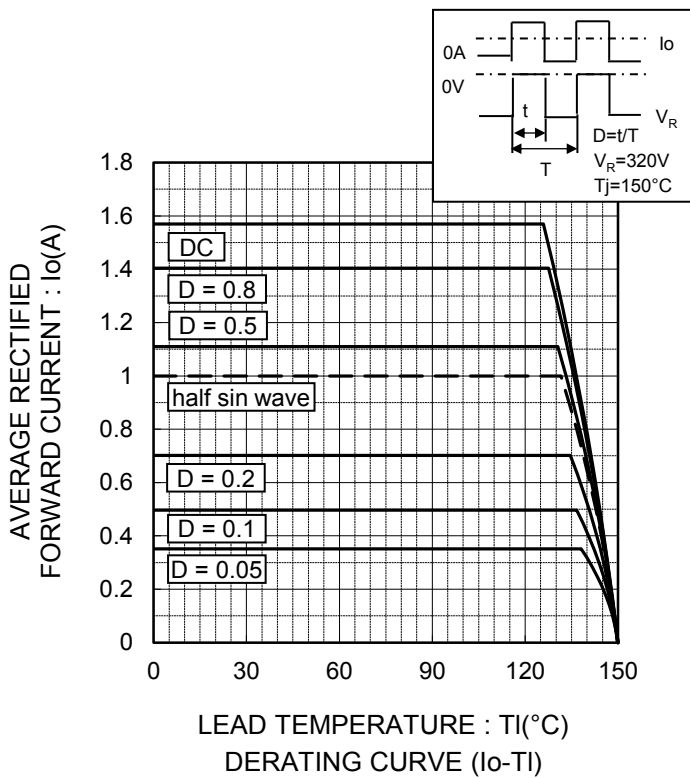
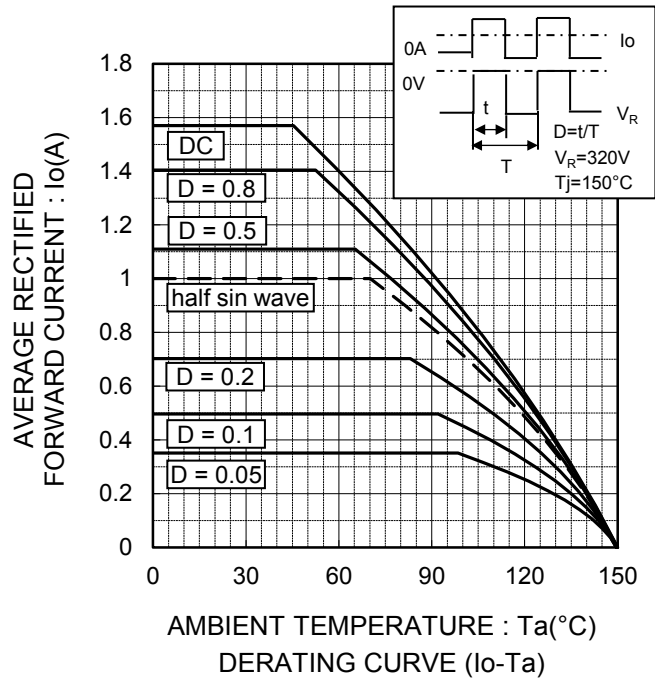
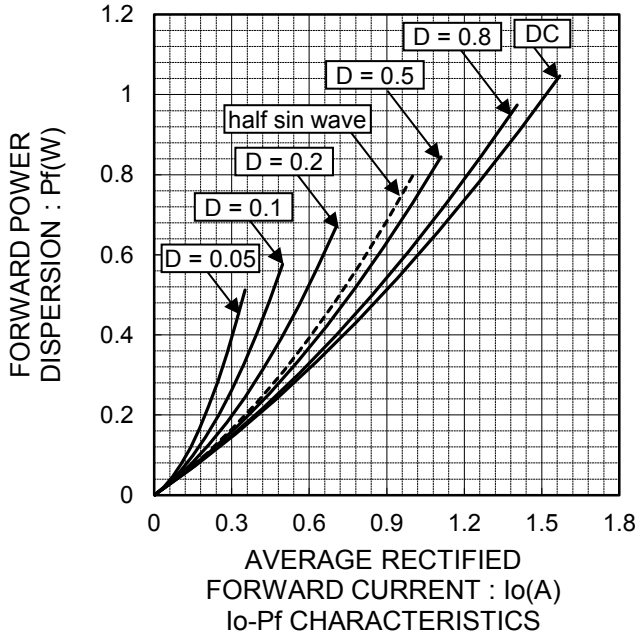


t_{rr} DISPERSION MAP

●Electrical characteristic curves



●Electrical characteristic curves



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