

Super Fast Recovery Diode

Series

Standard Fast Recovery

Applications

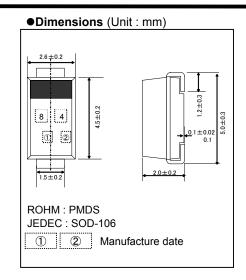
General rectification

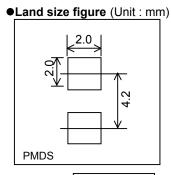
● Features

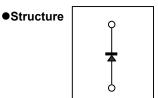
- 1)Small power mold type. (PMDS)
- 2)Low switching loss
- 3)Low forward voltage

Construction

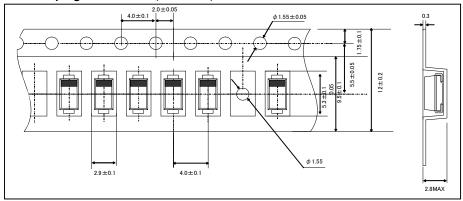
Silicon epitaxial planer







●Taping dimensions (Unit : mm)

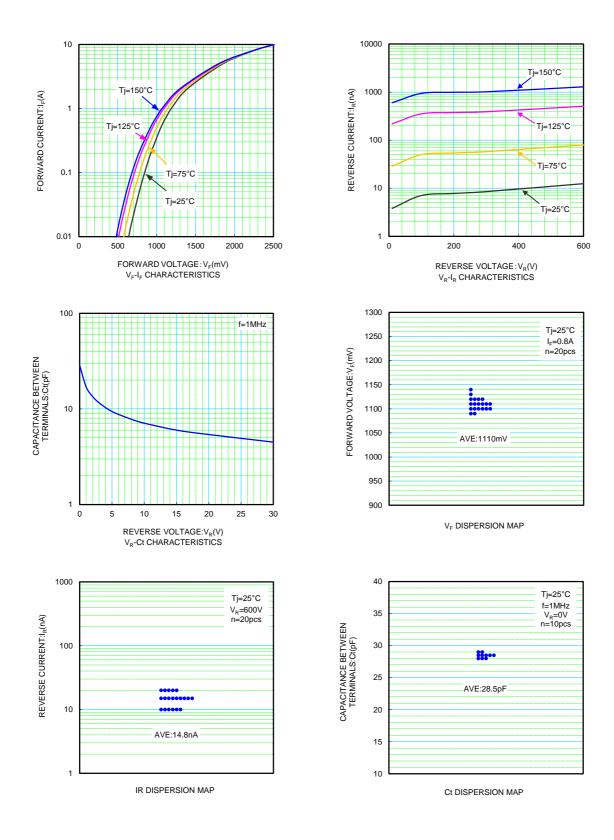


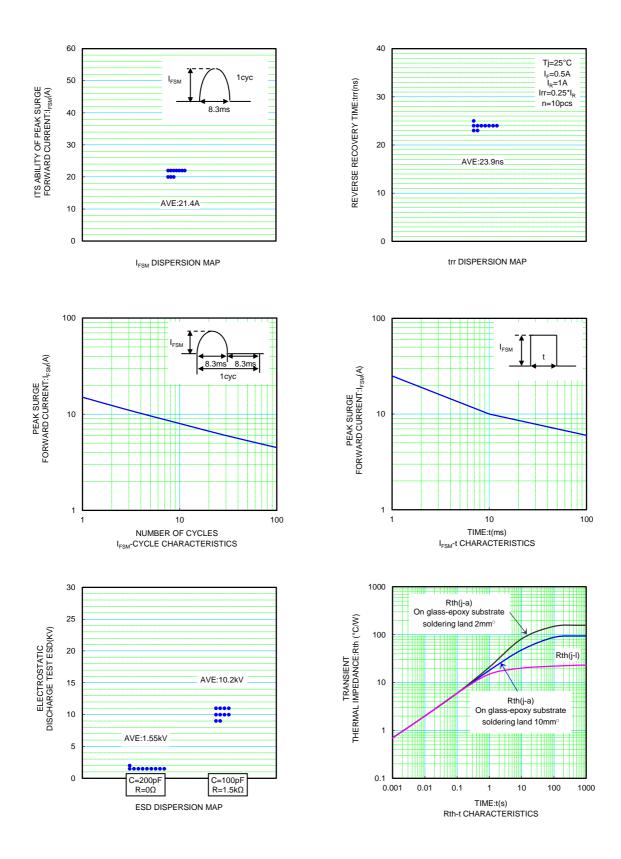
●Absolute maximum ratings (TI=25°C)

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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	lo	Glass epoxy substrate mounted	TI=115°C	0.8	А
		R-road, 60Hz half sin wave	11–115 C		
Forward current surge peak	I _{FSM}	60Hz half sin wave, Non-repetitive		15	Α
		one cycle peak value, Tj=25°C			
Junction temperature	Tj			150	°C
Storage temperature	Tstg			-55 to +150	°C

●Electrical characteristics (Tj=25°C)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward voltage	V_{F}	I _F =0.8A	-	1.15	1.45	V
Reverse current	I_R	V _R =600V	_	0.01	1	μA
Reverse recovery time	trr	I _F =0.5A,I _R =1A,Irr=0.25×I _R	_	25	35	ns
Thermal resistance	Rth(j-l)	junction to lead	_	_	23	°C/W





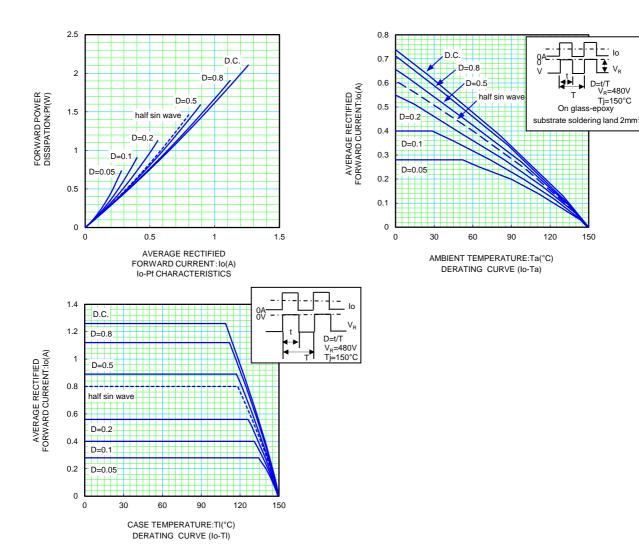
lo

1 V_R

T D=t/T V_R=480V Tj=150°C On glass-epoxy

150

120



Notes

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