

Super Fast Recovery Diode

Series

Standard Fast Recovery

Applications

General rectification

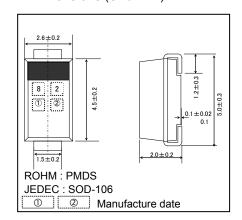
Features

- 1)Small power mold type. (MDS)
- 2)High switching speed
- 3)Low forward voltage

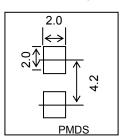
●Construction

Silicon epitaxial planar

●Dimensions (Unit:mm)



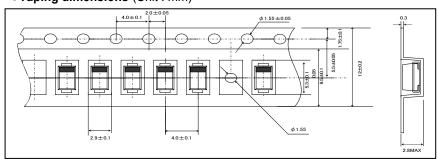
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit: mm)



●Absolute maximum ratings (TI=25°C)

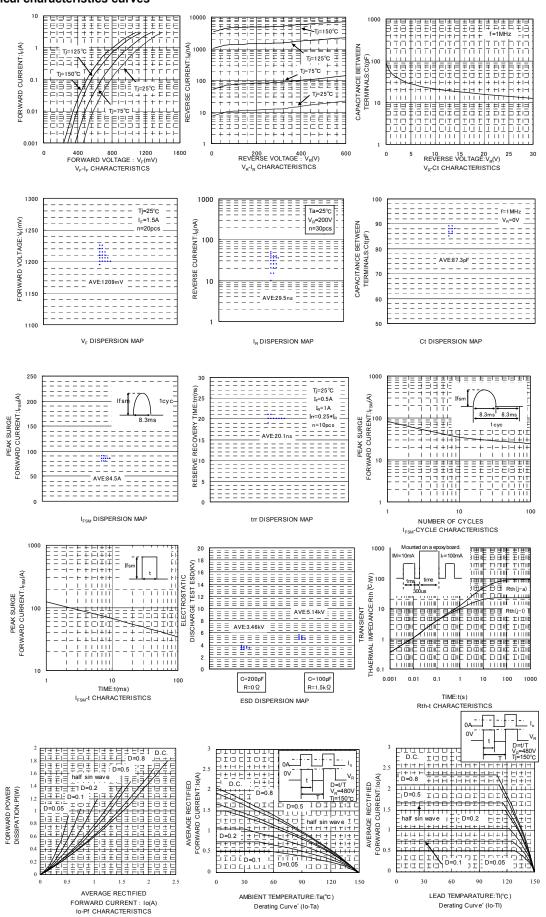
Parameter	Symbol	Limits	Unit
Repetitive peak Reverse voltage	V_{RM}	600	V
Reverse voltage	V_R	600	V
Average rectified forward current(*1)	lo	1.5	Α
Forward current surge peak (60Hz,1cyc,Tj=25°C)	I _{FSM}	40	Α
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55to+150	°C

^(*1) Half sinwave on the Glass epoxy substrate (size : 50mm×50mm),Tc=90 °CMax.

●Electrical characteristics (Tj=25°C)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit	
Forward voltage	V _F	I _F =1.5A	-	1.25	1.55	V	
Reverse current	I _R	V _R =600V	-	0.03	10	μA	
Reverse recovery time	trr	I_F =0.5A, I_R =1A, I_R =0.25× I_R	-	20	35	ns	
Thermal Resistance	Rth (j-l)	junction to lead	-	-	23	°C/W	

•Electrical characteristics curves



Notes

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