Fast recovery diode RF501PS2S

Applications

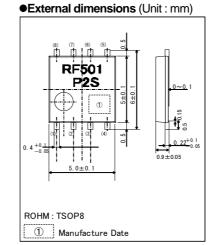
General rectification

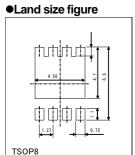
● Features

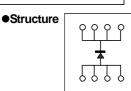
- 1) High power mold type (TSOP8)
- 2) Low V_F
- 3) Very fast recovery
- 4) Low switching loss

●Construction

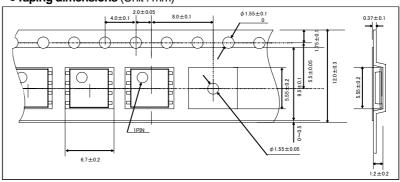
Silicon epitaxial planar







●Taping dimensions (Unit : mm)



Absolute maximum ratings (Ta=25°C)

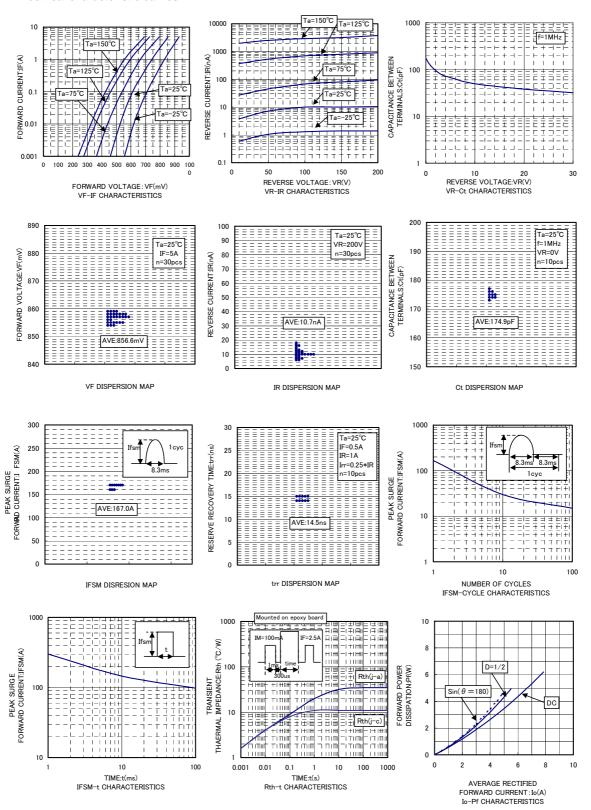
●Absolute maximum ratings (Ta=25°C)			
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	200	V
Reverse voltage (DC)	V_R	200	V
Average rectified forward current (*1)	lo	5	Α
Forward current surge peak (60Hz·1cyc)	I_{FSM}	70	Α
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

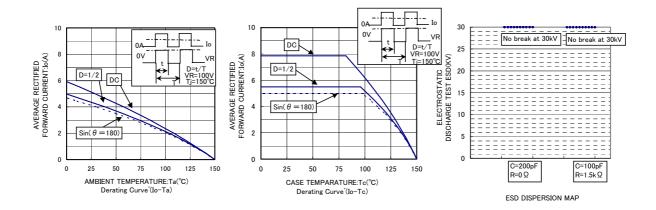
^(*1) Mounted on epoxy board. 180°Half sine wave

●Electrical characteristic (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	V_{F}	-	0.86	0.92	V	I _F =5A
Reverse current	I _R	-	0.02	1	μΑ	V _R =200V
Capacitance between terminals	trr	-	14	30	ns	I _F =0.5A,I _R =1A,Irr=0.25*I _R

●Electrical characteristic curves





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