

Fast recovery diode

RF501PS2S

●Applications

General rectification

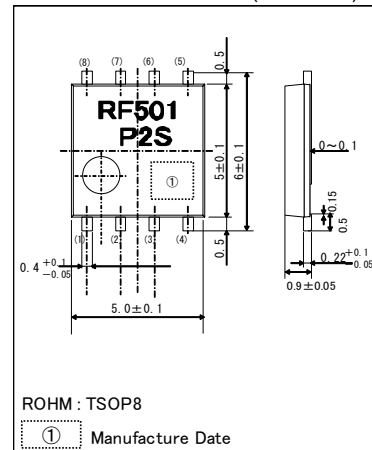
●Features

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

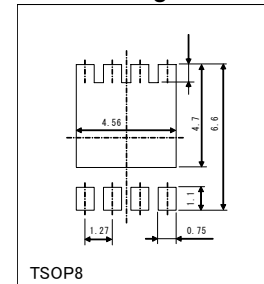
●Construction

Silicon epitaxial planar

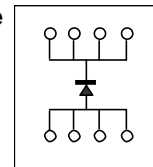
●External dimensions (Unit : mm)



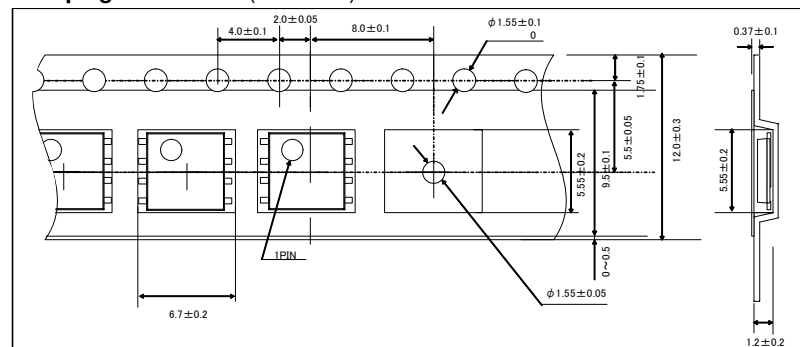
●Land size figure



●Structure



●Taping dimensions (Unit : mm)

●Absolute maximum ratings ($T_a=25^\circ\text{C}$)

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	200	V
Reverse voltage (DC)	V_R	200	V
Average rectified forward current (*1)	I_o	5	A
Forward current surge peak (60Hz·1cyc)	I_{FSM}	70	A
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$

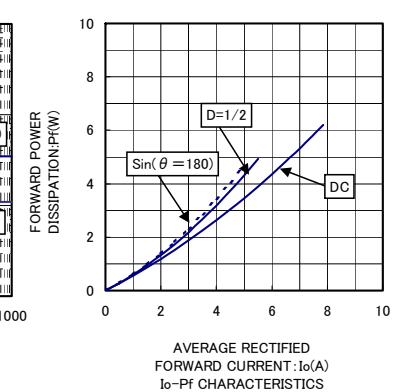
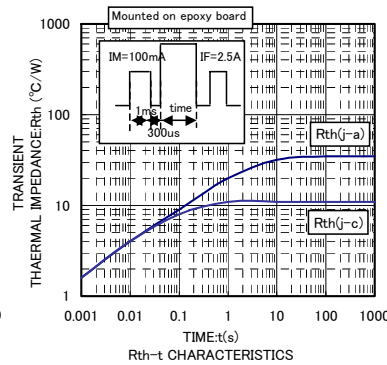
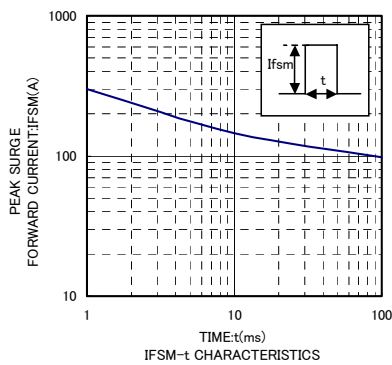
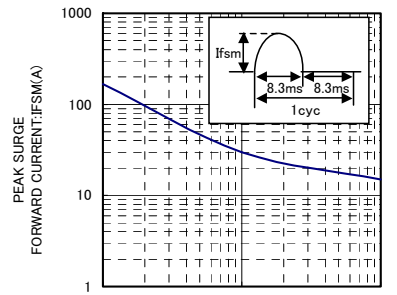
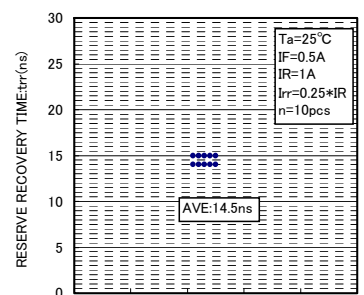
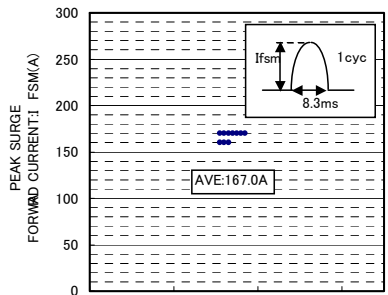
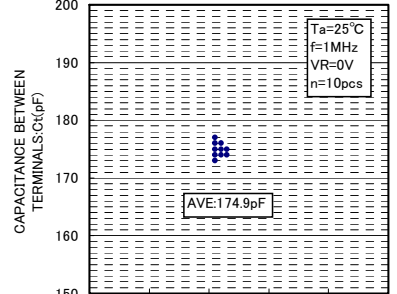
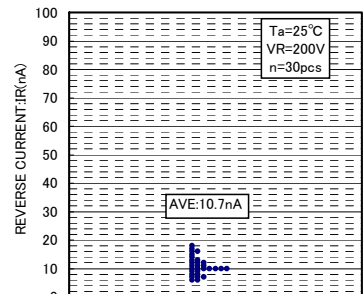
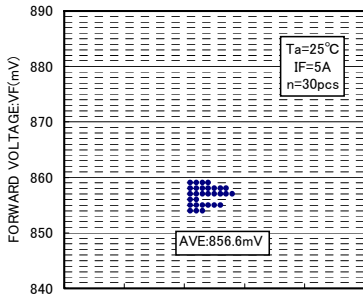
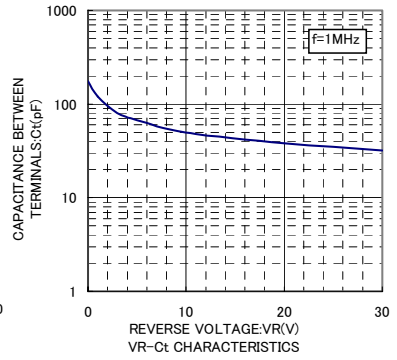
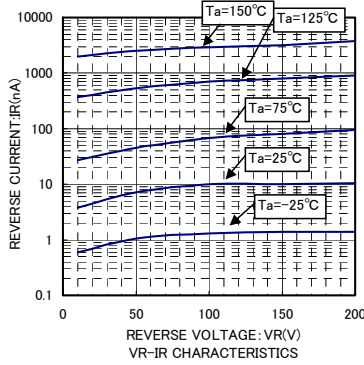
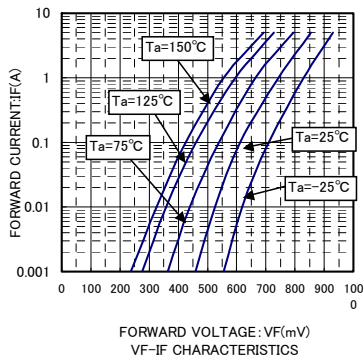
(*1) Mounted on epoxy board. 180°Half sine wave

●Electrical characteristic ($T_a=25^\circ\text{C}$)

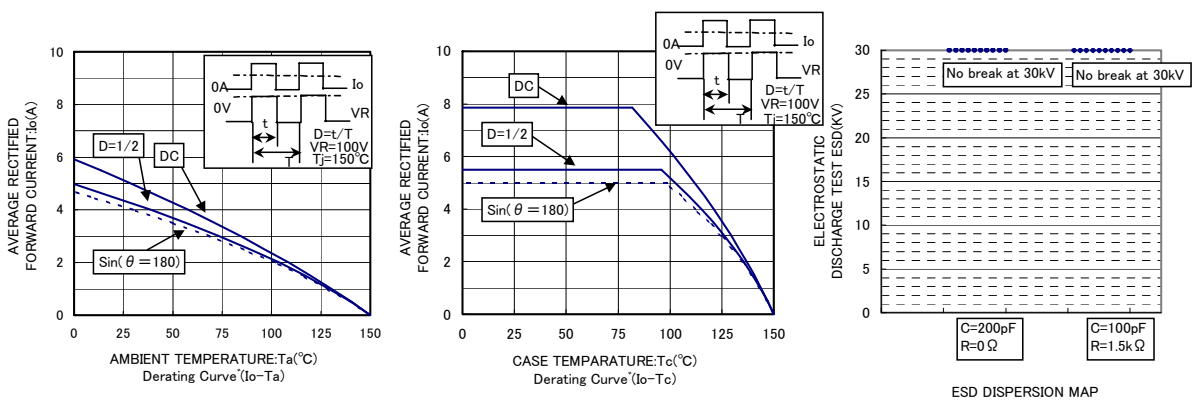
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	0.86	0.92	V	$I_F=5\text{A}$
Reverse current	I_R	-	0.02	1	μA	$V_R=200\text{V}$
Capacitance between terminals	t_{rr}	-	14	30	ns	$I_F=0.5\text{A}, I_R=1\text{A}, I_{rr}=0.25I_R$

Diodes

●Electrical characteristic curves



Diodes



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