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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# Fast recovery diode

## RF501PS2S

### ●Applications

General rectification

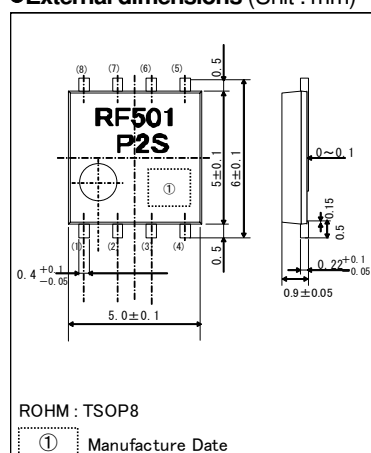
### ●Features

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

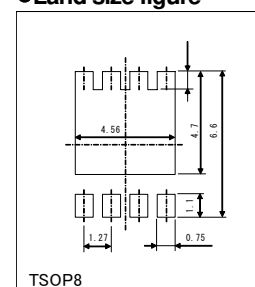
### ●Construction

Silicon epitaxial planar

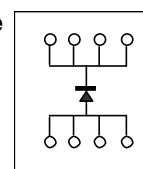
### ●External dimensions (Unit : mm)



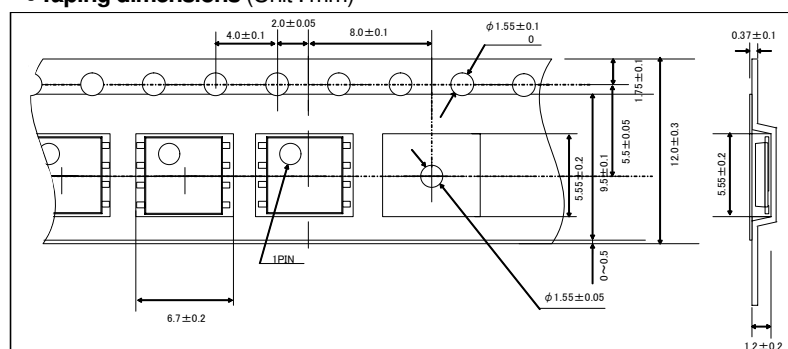
### ●Land size figure



### ●Structure



### ●Taping dimensions (Unit : mm)



### ●Absolute maximum ratings (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)	$I_o$	5	A
Forward current surge peak (60Hz·1cyc)	$I_{FSM}$	70	A
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-55 to +150	°C

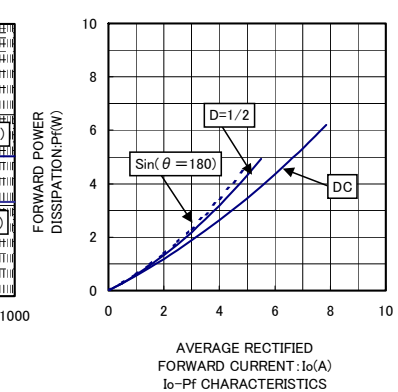
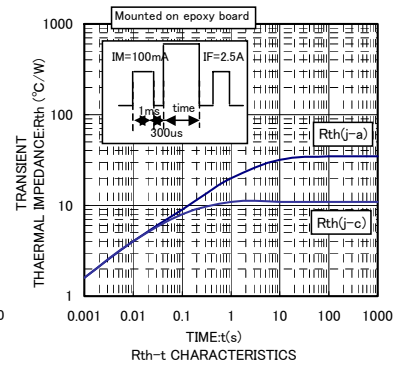
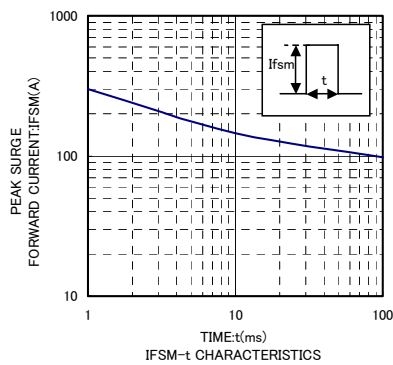
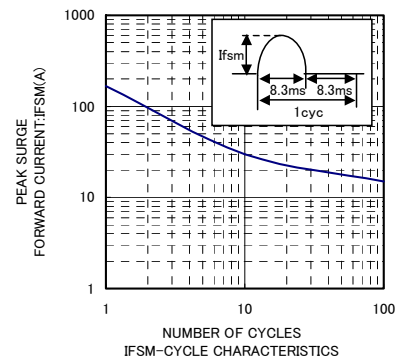
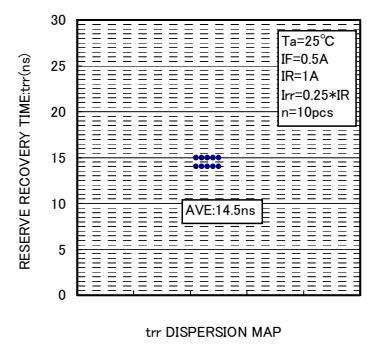
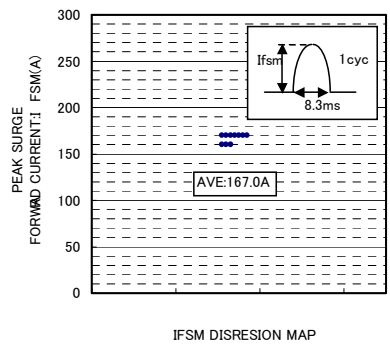
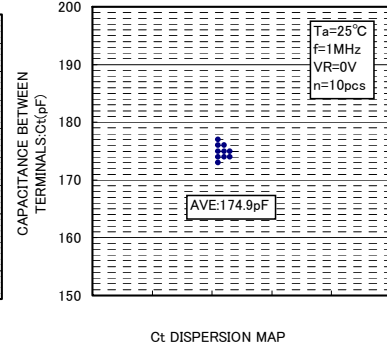
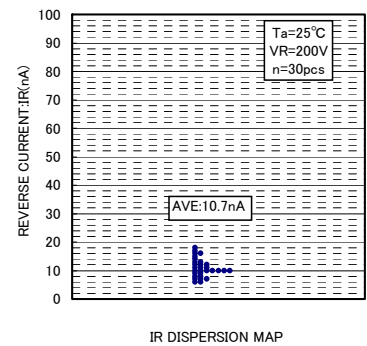
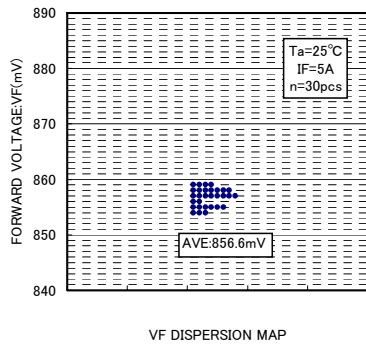
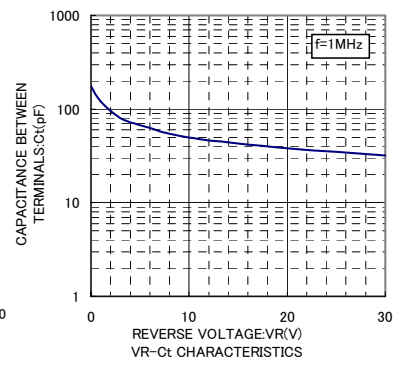
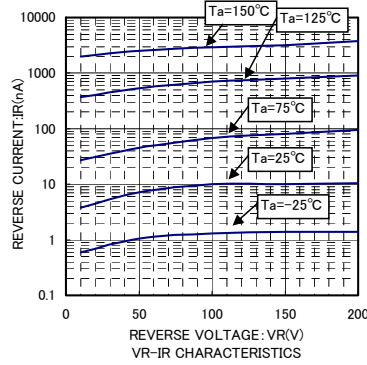
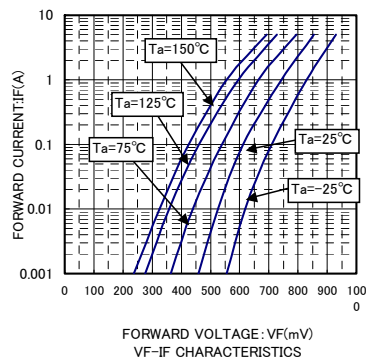
(\*1) Mounted on epoxy board. 180°Half sine wave

### ●Electrical characteristic (Ta=25°C)

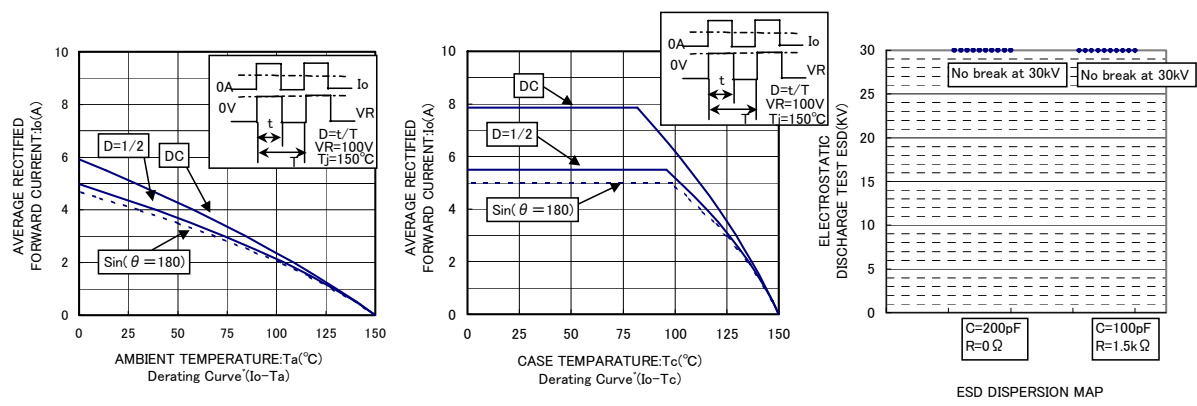
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	0.86	0.92	V	$I_F=5A$
Reverse current	$I_R$	-	0.02	1	μA	$V_R=200V$
Capacitance between terminals	$t_{rr}$	-	14	30	ns	$I_F=0.5A, I_R=1A, I_{rr}=0.25I_R$

## Diodes

## ●Electrical characteristic curves



Diodes





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