

## Super Fast Recovery Diode

### **RF505B6S**

### Series

Standard Fast Recovery

### Applications

General rectification

### Features

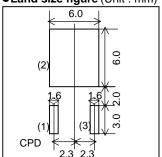
- 1)Power mold type. (CPD)
- 2)High switching speed
- 3)Low Reverse current

### ●Construction

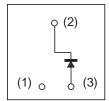
Silicon epitaxial planar

# ●Dimensions (Unit:mm) ROHM: CPD JEITA: SC-63 Production month

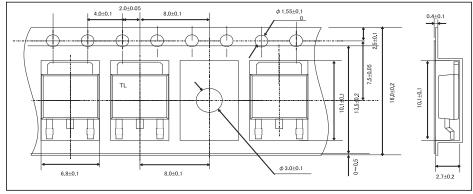
### ●Land size figure (Unit : mm)



Structure



### ●Taping dimensions (Unit:mm)



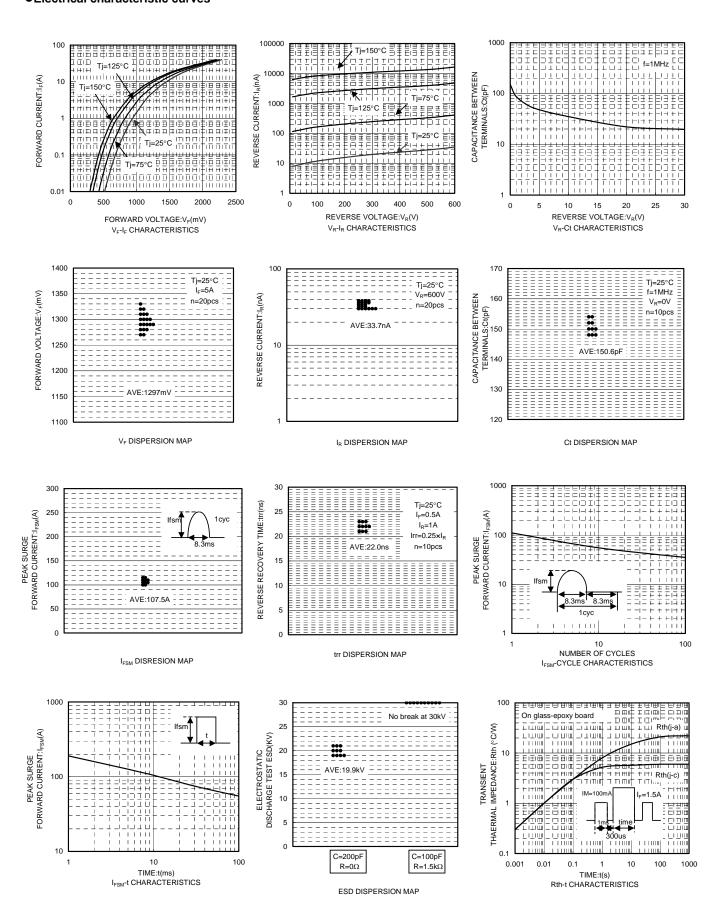
#### ● Absolute maximum ratings (Tc=25°C)

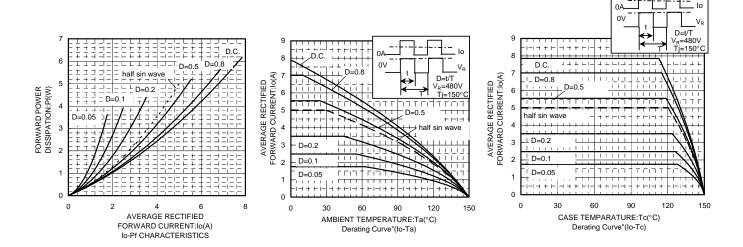
Parameter	Symbol	Conditions	Limits	Unit				
Repetitive peak Reverse voltage	$V_{RM}$	Duty⊴0.5	600	V				
Reverse voltage	$V_R$	Direct voltage	600	V				
Average rectified forward current	lo	60Hz half sin wave,resistive load Tc=42°C	5	Α				
Forward current surge peak	I <sub>FSM</sub>	60Hz half sin wave, Non-repetitive one cycle peak value, Tj=25°C	50	Α				
Junction temperature	Tj		150	°C				
Storage temperature	Tstg		-55 to +150	°C				

### ●Electrical characteristics(Ti=25°C)

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Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit			
Forward voltage	V <sub>F</sub>	I <sub>F</sub> =5.0A	-	1.3	1.7	V			
Reverse current	I <sub>R</sub>	V <sub>R</sub> =600V	-	0.05	10	μΑ			
Reverse recovery time	trr	$I_F=0.5A$ , $I_R=1A$ , $I_R=0.25 \times I_R$	-	22	30	ns			
Thermal resistance	Rth(j-l)	junction to lead	-	_	12	°C/W			

#### •Electrical characteristic curves





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