

Super Fast Recovery Diode

RF505B6S

Series

Standard Fast Recovery

Applications

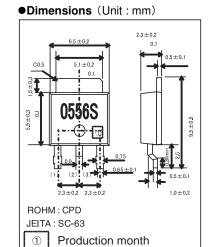
General rectification

Features

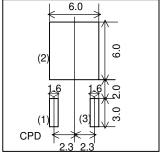
- 1)Power mold type. (CPD)
- 2)High switching speed
- 3)Low Reverse current

Construction

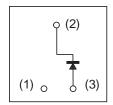
Silicon epitaxial planar



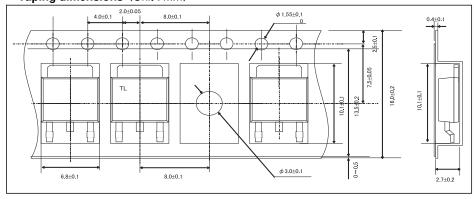
●Land size figure (Unit : mm)



Structure



● Taping dimensions (Unit: mm)



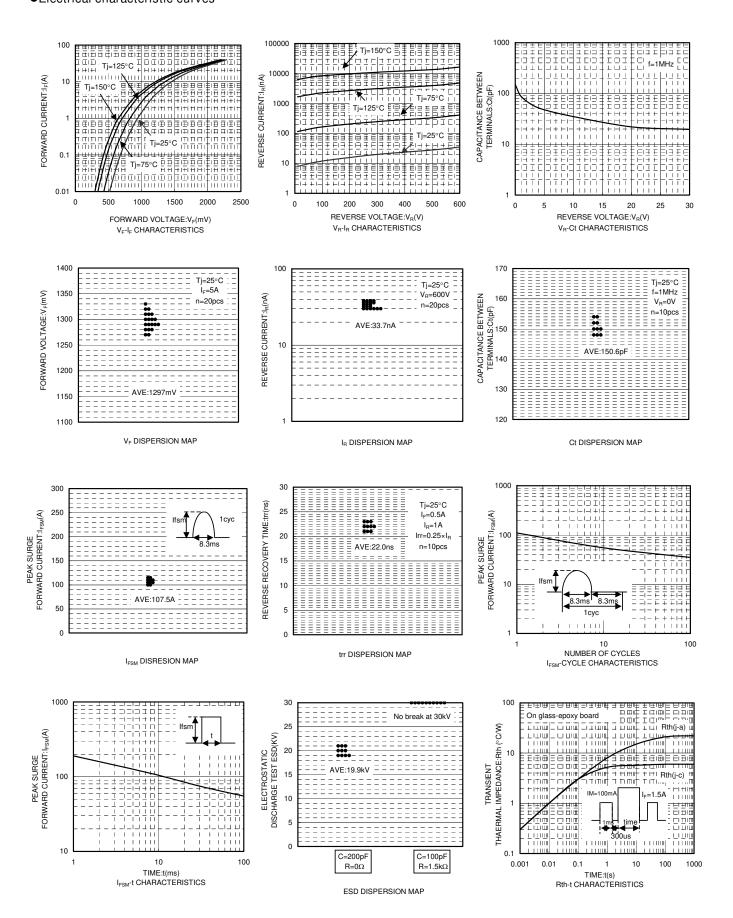
● Absolute maximum ratings (Tc=25°C)

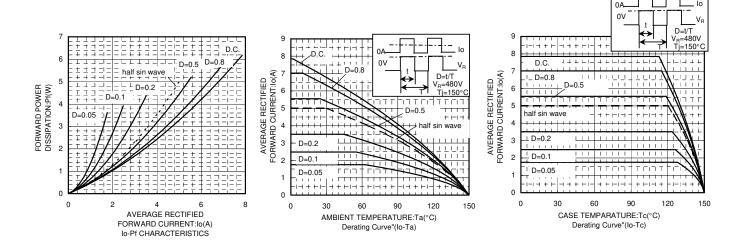
Parameter	Symbol	Conditions	Limits	Unit
Repetitive peak Reverse voltage	V_{RM}	Duty⊴0.5	600	V
Reverse voltage	V_R	Direct voltage	600	V
Average rectified forward current	lo	60Hz half sin wave,resistive load Tc=42°C	5	Α
Forward current surge peak	I _{FSM}	60Hz half sin wave, Non-repetitive one cycle peak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

●Electrical characteristics(Ti=25°C)

* = 100 th out of the total of									
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit			
Forward voltage	V _F	I _F =5.0A	-	1.3	1.7	V			
Reverse current	I _R	V _R =600V	-	0.05	10	μΑ			
Reverse recovery time	trr	$I_F = 0.5A, I_R = 1A, Irr = 0.25 \times I_R$	-	22	30	ns			
Thermal resistance	Rth(j-l)	junction to lead	-	_	12	°C/W			

•Electrical characteristic curves





Notes

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