

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

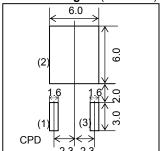
●Construction

Silicon epitaxial planar

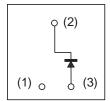
•Dimensions (Unit : mm) 2.3±0.2 0.1 0.5±0.1 0.5±0.1 0.75 0.5±0.1 0.5±0.1 0.5±0.1

Production month

●Land size figure (Unit : mm)



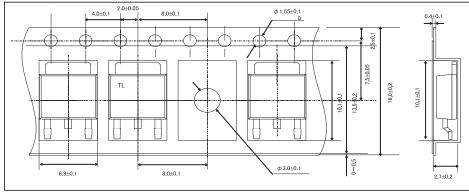
Structure



● Taping dimensions (Unit: mm)

ROHM: CPD

JEITA : SC-63



●Absolute maximum ratings (Tc=25°C)

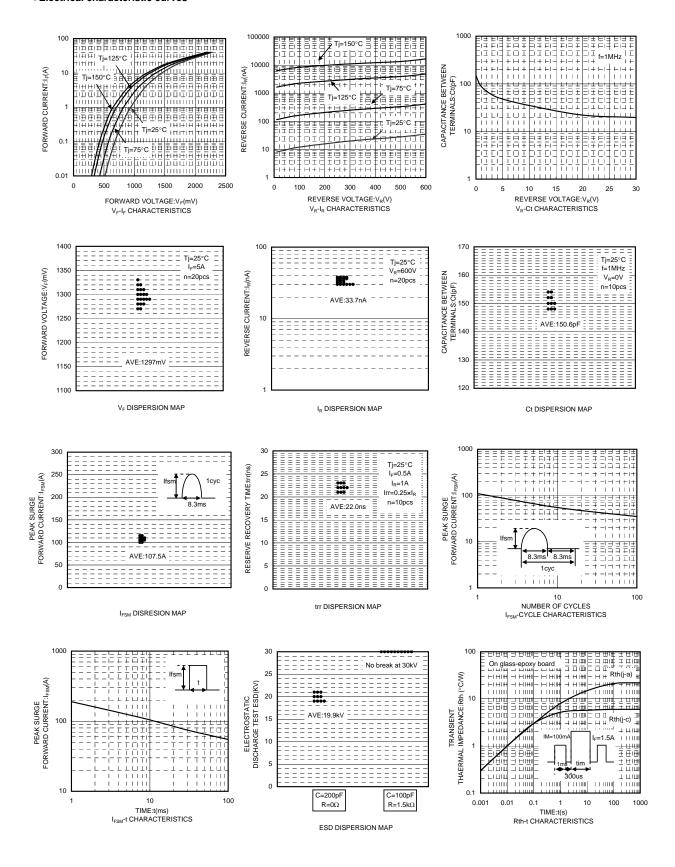
Parameter	Symbol	Conditions	Limits	Unit
Repetitive peak Reverse voltage	V_{RM}	Duty⊴0.5	600	V
Reverse voltage	V_R	Direct voltage	600	V
Average rectified forward current	lo	60Hz half sin wave,resistive load Tc=42°C	5	Α
Forward current surge peak	I _{FSM}	60Hz half sin wave, Non-repetitive one cycle peak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

$\bullet \textbf{Electrical characteristics}(Tj = 25^{\circ}C)$

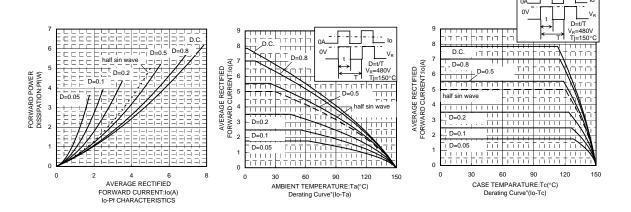
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward voltage	V_{F}	I _F =5.0A	-	1.3	1.7	V
Reverse current	I _R	V _R =600V	-	0.05	10	μA
Reverse recovery time	trr	I_F =0.5A, I_R =1A, I_R =0.25× I_R	-	22	30	ns
Thermal resistance	Rth(j-l)	junction to lead	-	_	12	°C/W

RF505B6S Data Sheet

•Electrical characteristic curves



RF505B6S Data Sheet



Notes

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