

# Fast Recovery Diode

# **RF301B2S**

# Applications

General rectification

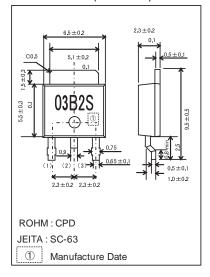
#### Features

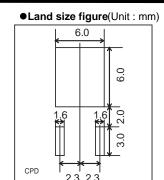
- 1)Power mold type(CPD)
- 2)Ultra Low V<sub>F</sub>
- 3)Very fast recovery
- 4)Low switching loss

# **●**Construction

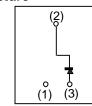
Silicon epitaxial planar

# ● Dimentions (Unit: mm)

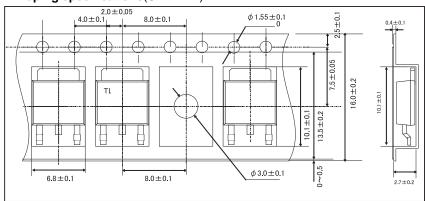




# Structure



# ● Taping specifications (Unit: mm)



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

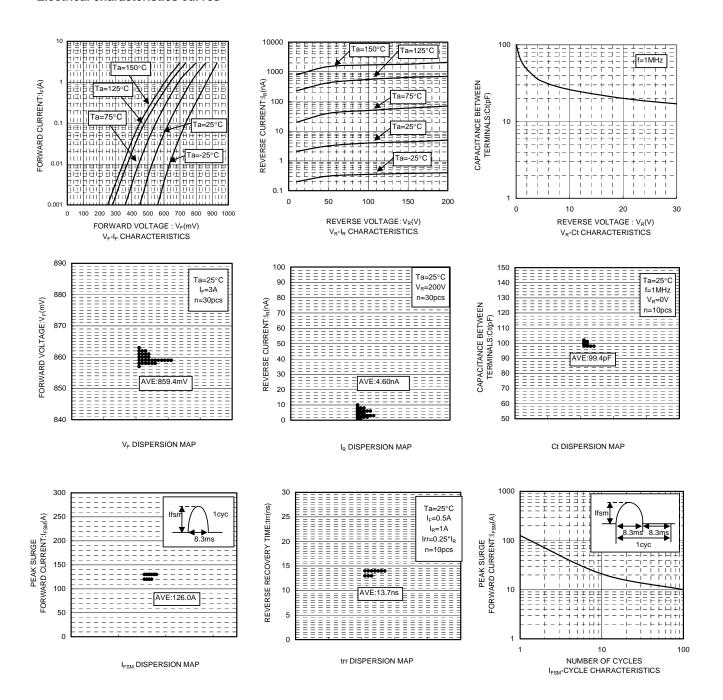
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	$V_{RM}$	200	V
Reverse voltage (DC)	$V_R$	200	V
Average rectified forward current(*1)	lo	3	Α
Forward current surge peak (60Hz / 1cyc)(*1)	I <sub>FSM</sub>	40	Α
Junction temperature	Tj	150	°C
Storage temperature	Tstg	−55 to +150	°C

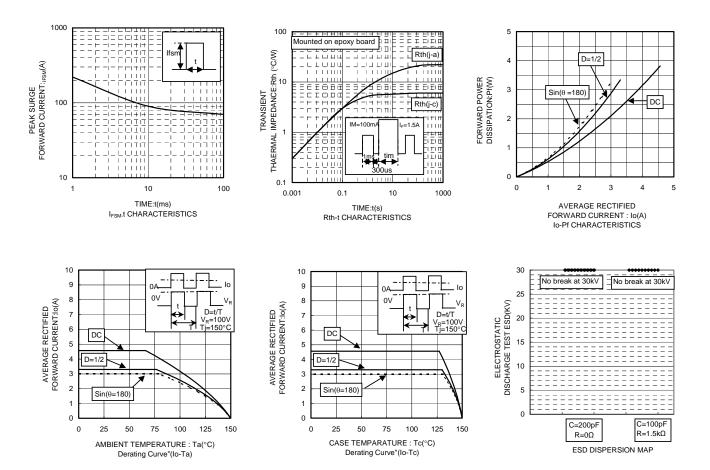
<sup>(\*1)</sup>Bussiness frequencies, Rating of R-load, Tc=128°C MAX.

# ●Electrical characteristics(Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	$V_{F}$	-	0.87	0.93	V	I <sub>F</sub> =3A
Reverse current	I <sub>R</sub>	-	10nA	10	μA	V <sub>R</sub> =200V
Reverse recovery time	trr	-	14	25	ns	$I_F=0.5A, I_R=1A, Irr=0.25*I_R$
Thermal impedance	θјс	-	-	6	°C/W	JUNCTION TO CASE

#### •Electrical characteristics curves





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