Schottky barrier diode RSX1001T3

Applications

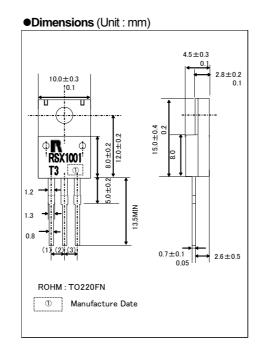
Switching power supply

Features

- 1) Cathode common type. (TO-220)
- 2) Low IR
- 3) High reliability

Construction

Silicon epitaxial planar





•Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit	
Reverse voltage (repetitive peak)	V _{RM}	30	V	
Reverse voltage (DC)	V _R	30	V	
Average rectified forward current(*1)	lo	10	A	
Forward current surge peak (60Hz · 1cyc) (*1)	I _{FSM}	150	A	
Junction temperature	Tj	150	°C	
Storage temperature	Tstg	-40 to +150	C°	

(*1)Business frequencies, Rating of R-load, 1/2 lo per diode, Tc=132°C

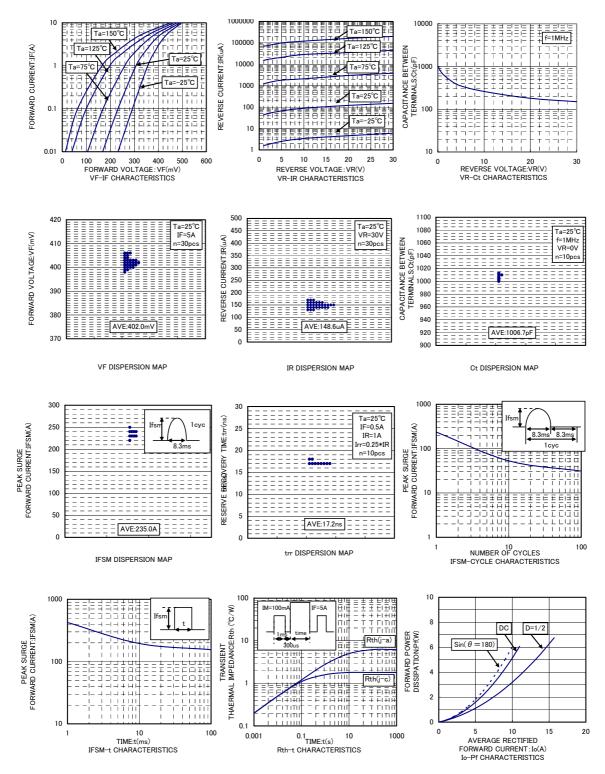
•Electrical characteristic (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	V _F	-	-	0.45	V	I _F =5A
Reverse current	I _R	-	-	500	μA	V _R =30V
Reverse recovery time	θјс	-	-	2.5	°C/W	junction to case



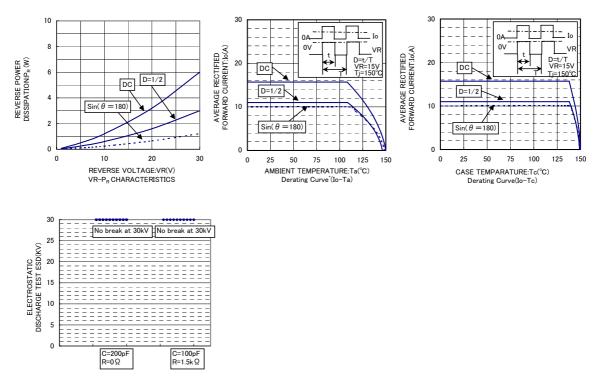
Diodes

•Electrical characteristic curves



Rev.A

2/3



ESD DISPERSION MAP

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Appendix1-Rev2.0

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