# Schottky barrier diode RSX1001T3

## Applications

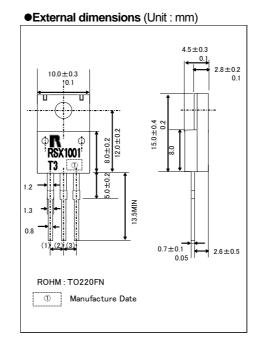
Switching power supply

### ● Features

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

### **●**Construction

Silicon epitaxial planar





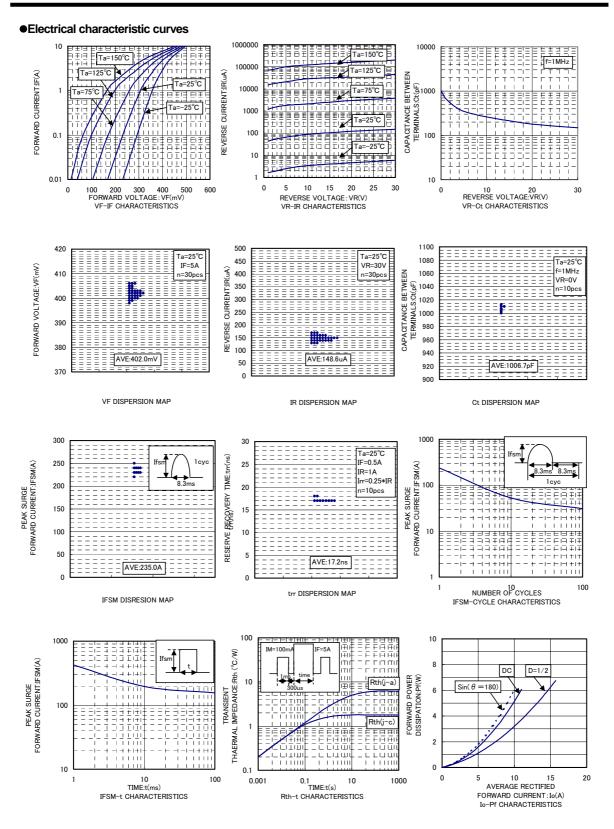
# ● Absolute maximum ratings (Ta=25°C)

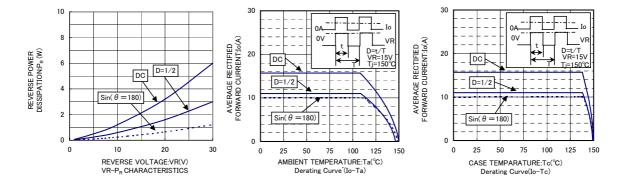
Parameter	Symbol	Limits	Unit		
Reverse voltage (repetitive peak)	$V_{RM}$	30	V		
Reverse voltage (DC)	$V_R$	30	V		
Average rectified forward current (*1)	lo	10	Α		
Forward current surge peak (60Hz-1cyc)	I <sub>FSM</sub>	150	Α		
Junction temperature	Tj	150	°C		
Storage temperature	Tstg	-40 to +150	°C		

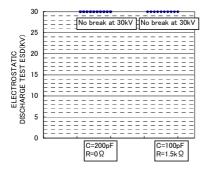
<sup>(\*1)</sup> Business frequencies, Rating of R-load, 1/2 lo per diode, TC=100°C

## ●Electrical characteristic (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	$V_{F}$	-	-	0.45	V	I <sub>F</sub> =5A
Reverse current	I <sub>R</sub>	-	-	500	μA	V <sub>R</sub> =30V
Reverse recovery time	θјс	-	-	2.5	°C/W	junction to case







ESD DISPERSION MAP

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