

RSX1001T3

Switching power supply

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

Silicon epitaxial planar

The drawing shows the mechanical specifications for the RSX1001 T3 component. The top view (left) indicates a square package with a width of 10.0 ± 0.3 mm and a pin pitch of 0.1 mm. The side view (right) shows a total height of 15.0 ± 0.4 mm, with a mounting tab height of 2.8 ± 0.2 mm. The package is marked with 'RSX1001' and 'T3'. A boxed circled '1' indicates the manufacturing date code location. Lead dimensions include a length of 13.5 mm, a width of 5.0 ± 0.2 mm, and a thickness of 0.2 mm. Pin dimensions include a width of 0.7 ± 0.1 mm and a thickness of 0.05 mm.

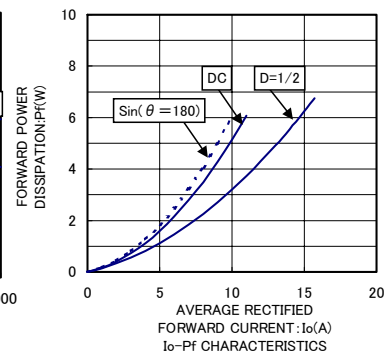
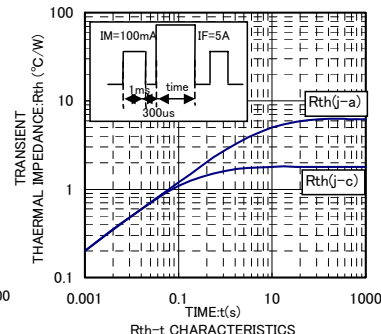
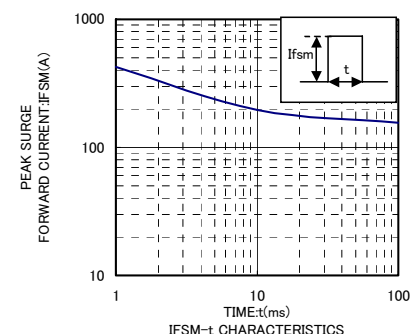
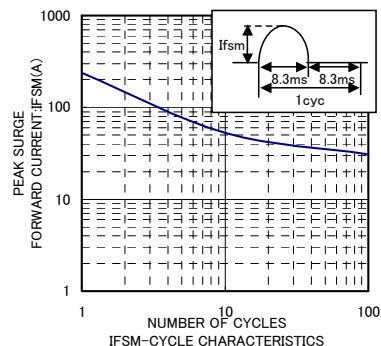
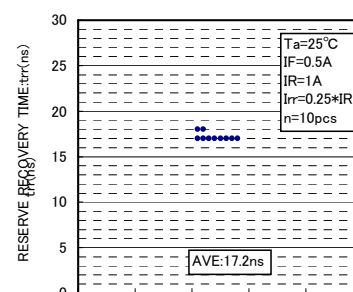
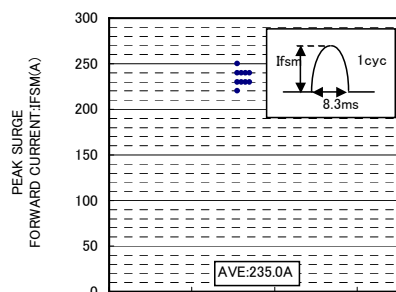
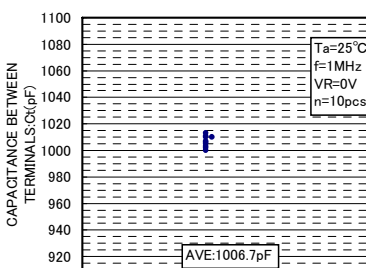
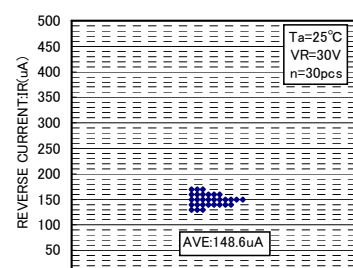
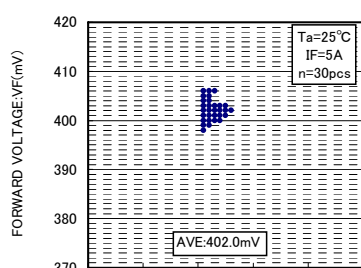
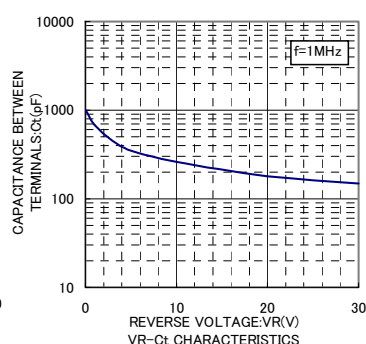
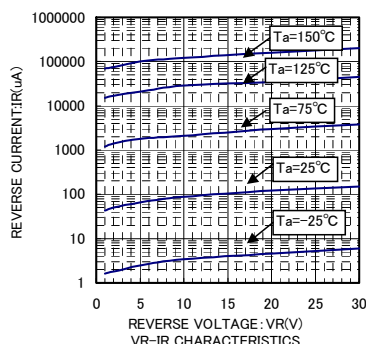
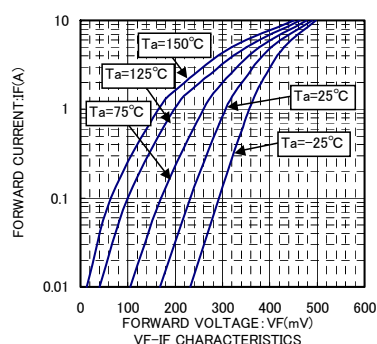
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	30	V
Reverse voltage (DC)	V_R	30	V
Average rectified forward current (*1)	I_o	10	A
Forward current surge peak (60Hz•1cyc)	I_{FSM}	150	A
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-40 to +150	°C

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

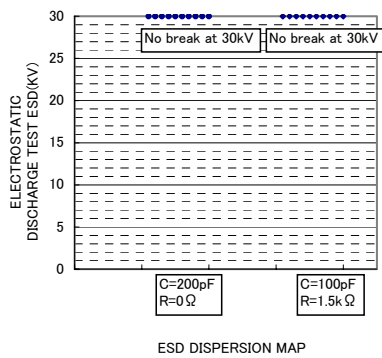
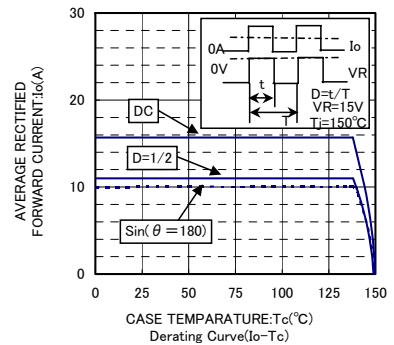
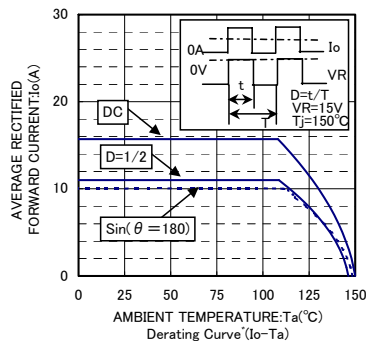
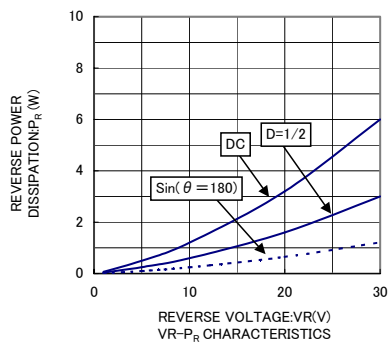
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-	-	0.45	V	$I_F=5A$
Reverse current	I_R	-	-	500	μA	$V_R=30V$
Reverse recovery time	θ_{jc}	-	-	2.5	$^{\circ}C/W$	junction to case

Diodes

●Electrical characteristic curves



Diodes



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