

RB551V-40

0.5 AMP. Surface Mount Schottky Barrier Rectifiers

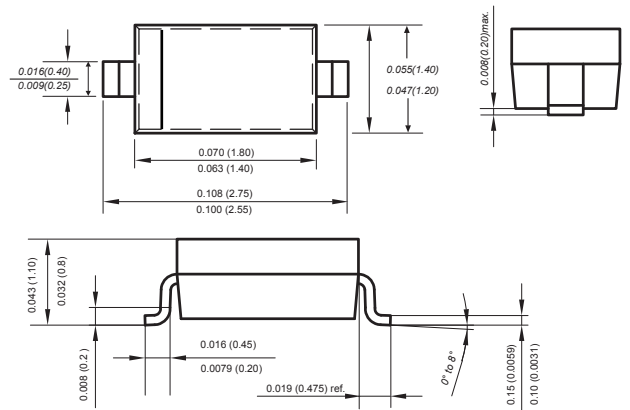
FEATURES

- ✧ Guard ring protection
- ✧ Low forward voltage drop
- ✧ For use in low voltage, high frequency inverters
- ✧ Surface mount device type

MECHANICAL DATA

- ✧ Case: SOD-323
- ✧ Terminals: Solderable per MIL-STD-750, Method 2026
- ✧ Approx. Weight: 5.48mg / 0.00019oz

Marking



SOD-323

Dimensions in inches and (millimeters)

Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Parameter	Symbols	RB551V-40	Units
Maximum recurrent peak reverse voltage	V_{RM}	40	V
Continuous forward current	I_O	500	mA
Reverse Leakage Current	I_R	0.1 @ $V_R=40V$	mA
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	25	A
Maximum Forward Voltage	V_F	0.47 @ $I_F=0.5A$	V
Total power dissipation	P_D	200	mW
Thermal Resistance, Junction to Ambient Air	$R_{\theta JA}$	400	°C/W
Junction Temperature	T_j	125	°C
Storage Temperature	T_{stg}	-55 ~ +150	°C

Fig.1 Power Derating Curve

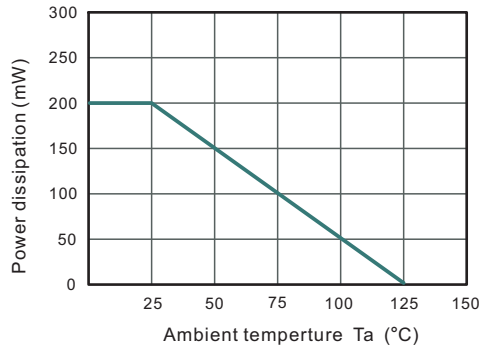


Fig.2 Typical Reverse Characteristics

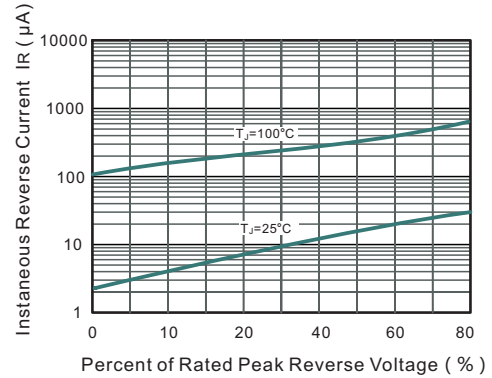


Fig.3 TYPICAL FORWARD VOLTAGE

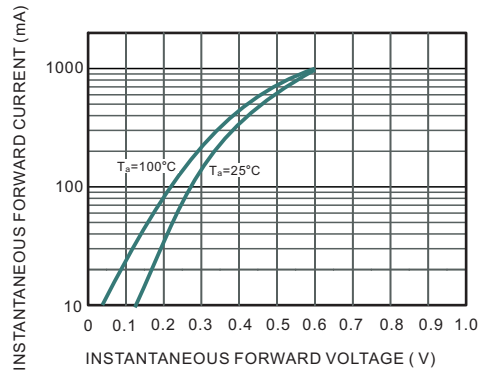


Fig.4 Typical Junction Capacitance

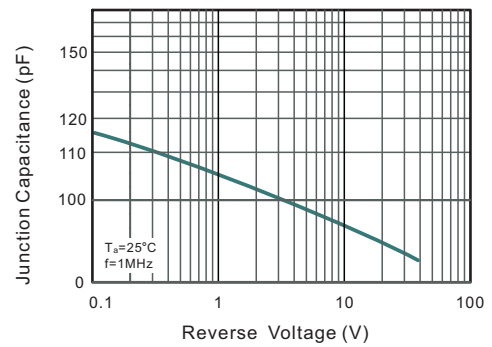


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

