

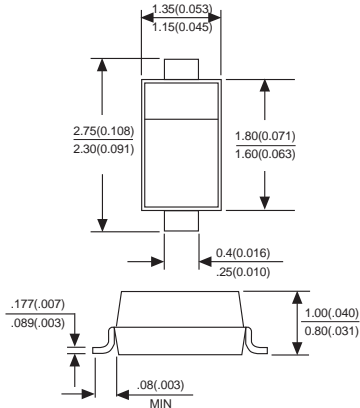


B16WS

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 60 Volts Forward Current - 1.0 Ampere

SOD-323



FEATURES

- ◆ Low forward voltage drop
- ◆ Guard ring construction for transient protection
- ◆ For use in low voltage, high frequency inverters
- ◆ High surge current capability

MECHANICAL DATA

Case: JEDEC SOD-323 molded plastic body
Terminals: Solderable per MIL-STD-750, Method 2026
Approx : Weight: 5.48mg/0.00019oz
Mark: SM

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
 Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

MDD Catalog Number	SYMBOLS	B16WS	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	60	VOLTS
Maximum RMS voltage	V_{RMS}	42	VOLTS
Maximum DC blocking voltage	V_{DC}	60	VOLTS
Maximum average forward rectified current	$I_{(AV)}$	1.0	Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	10.0	Amps
Maximum instantaneous forward voltage at 1.0A	V_F	0.7	Volts
Total powerdissipation	P_{tot}	250	mW
Thermal Resistance, Junction to Ambient Air	$R_{\theta JA}$	400	°C/W
Maximum DC reverse current at rated DC blocking voltage at $V_R=60V$	I_R	0.1	mA
Typical junction capacitance (NOTE 1)	C_J	120	pF
Operating junction temperature range	T_J	125	°C
Storage temperature range	T_{STG}	-55 to +150	°C

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.



RATINGS AND CHARACTERISTIC CURVES B16WS

Fig.1 Power Derating Curve

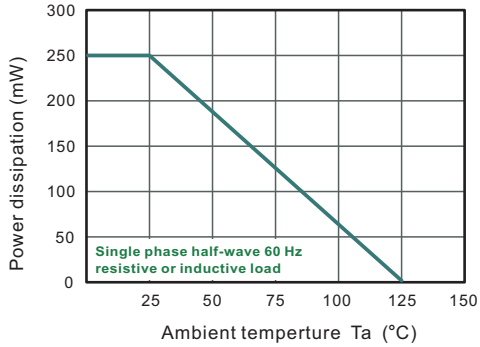


Fig.2 Typical Reverse Characteristics

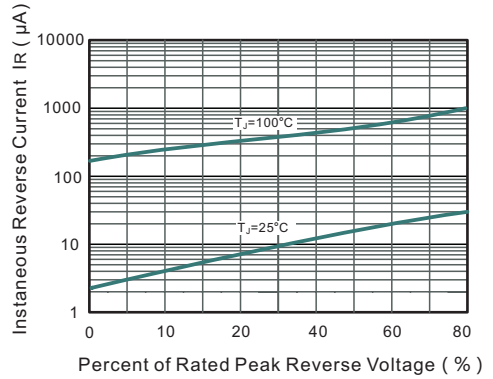


Fig.3 TYPICAL FORWARD VOLTAGE

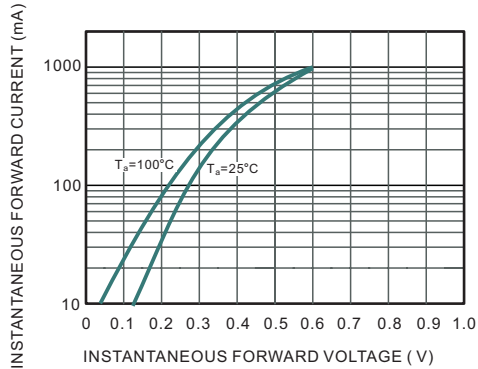
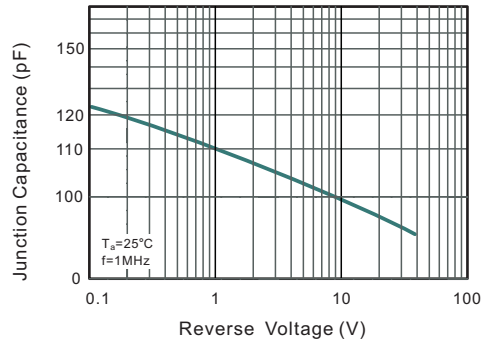


Fig.4 Typical Junction Capacitance



The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!



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