

SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 60 Volts

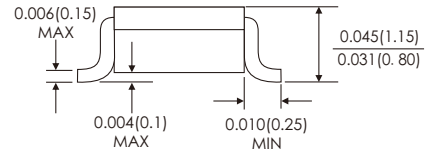
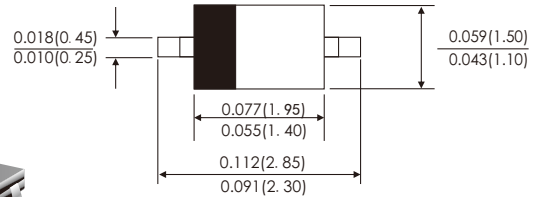
Forward Current - 0.5Ampere

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction ,majority carrier conduction
- Guard ring for overvoltage protection
- Low power loss ,high efficiency
- High current capability ,Low forward voltage drop
- High surge capability
- For use in low voltage ,high frequency inverters, free wheeling ,and polarity protection applications
- High temperature soldering guaranteed:260 °C/10 seconds at terminals



SOD-323



Dimensions in inches and (millimeters)

MECHANICAL DATA

- Case: SOD-323 molded plastic body
- Lead Finish: 100% Matte Sn (Tin)
- Polarity: color band denotes cathode end

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Ratings at 25°C ambient temperature unless otherwise specified ,Single phase ,half wave ,resistive or inductive load. For capacitive load,derate by 20%.)

Parameter	Symbols	Value	Volts
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 (See Fig. 1)	$I(AV)$	0.5	Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	5	Amps
Maximum instantaneous forward voltage at (note 1) at $I_F=0.5A$	V_F	0.70	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1) $T_A=25^{\circ}C$	I_R	300	μA
Typical thermal resistance (Note 2)	$R_{\theta JA}$	400	$^{\circ}C/W$
Operating junction temperature range	T_J	-55 to +125	$^{\circ}C$
Storage temperature range	T_{STG}	-55 to +125	$^{\circ}C$
Power Dissipation	P_D	250	mW
Typical junction capacitance(Note 3)	C_J	30	pF

Notes: 1.Pulse test: 300 μs pulse width,1% duty cycle

2. P.C.B. mounted with 0.2 X 0.2"(5.0 X 5.0mm)copper pad areas

3. Measured at 1MHz and reverse voltage of 4.0volts

RATINGS AND CHARACTERISTIC CURVES

FIG.1-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

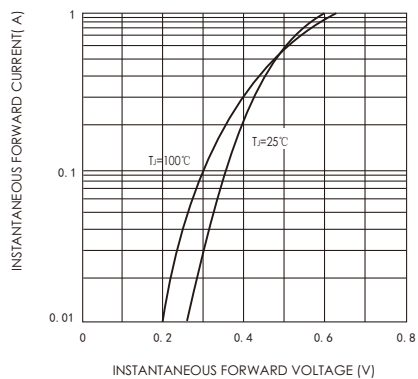


FIG.2-TYPICAL REVERSE CHARACTERISTICS

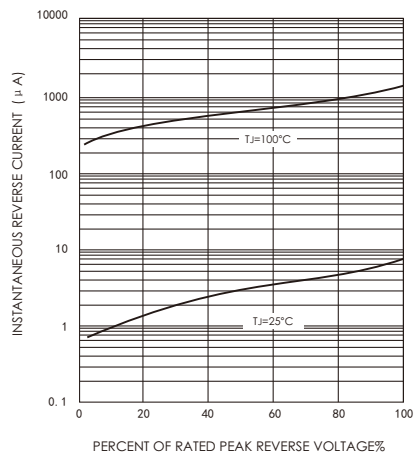


FIG.3-TYPICAL JUNCTION CAPACITANCE

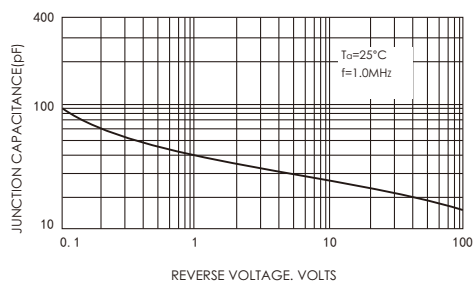
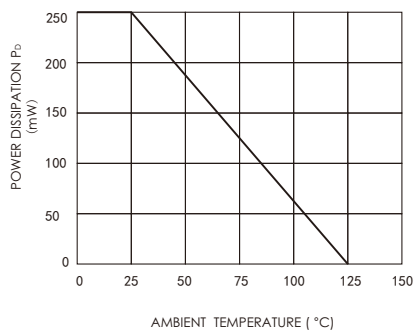


FIG.4-POWER DERATING CURVE



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