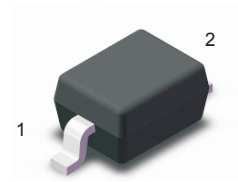


SCHOTTKY BARRIER RECTIFIERS

FEATURES

- High current rectifier Schottky diodes
- Low voltage, low inductance
- For detection and step-up-conversion

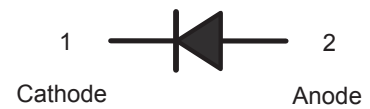
SOD-323



MECHANICAL DATA

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

CIRCUIT DIAGRAM



MARKING

Type number	Marking code
BAT60B	W5

Maximum Ratings and Electrical characteristics Ratings at 25 °C ambient temperature unless otherwise specified.

Parameter	Symbols	BAT60B	Units
Non-reptitive Peak Reverse Voltage	V_{RRM}	10	V
Forward Current	I_F	3	A
Forward Surge Current at 8.3ms	I_{FSM}	20	A
Power Dissipation at $T_c=25^{\circ}C$	P_D	350	mW
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150	$^{\circ}C$

ELECTRICAL CHARACTERISTICS ($T_a=25^{\circ}C$ unless otherwise specified)

Parameter	Symbols	BAT60B	Units
Maximum Forward Voltage $I_F=10\text{ mA}$ $I_F=100\text{ mA}$ $I_F=500\text{ mA}$ $I_F=1000\text{ mA}$	V_F	0.30 0.38 0.50 0.60	V
Peak Reverse Current $V_{R1}=5V$ $V_{R2}=8V$	I_R	15 20	μA
Diodes Capacitance $V_R=5V, f=1MHz$	C_T	30	pF

TYPICAL CHARACTERISTICS

Fig.1 Power Derating Curve

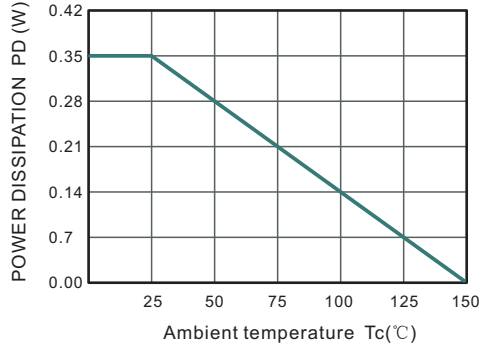


Fig.2 Typical Reverse Characteristics

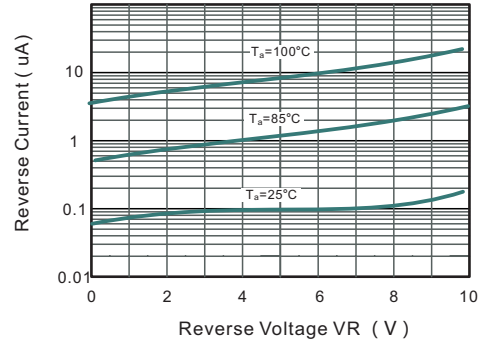


Fig.3 Typical Junction Capacitance

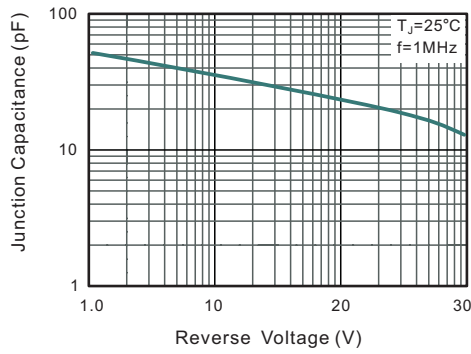


Fig.4 Typical Forward Characteristic

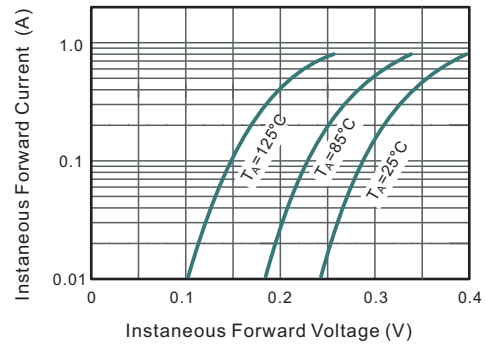
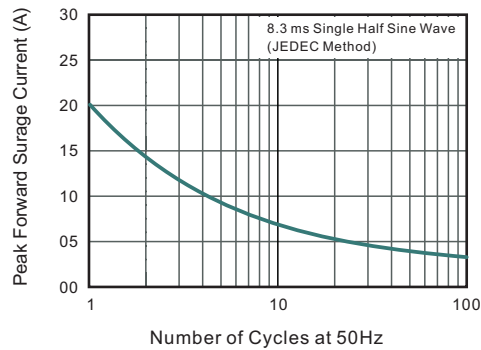
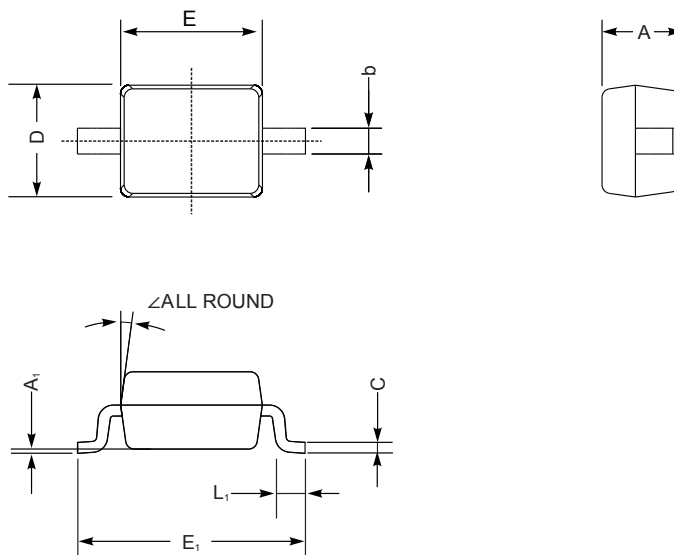


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



SOD-323 PACKAGE OUTLINE DRAWING



SYM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	0.8	1.1	0.032	0.043
C	0.08	0.15	0.0031	0.0059
D	1.2	1.4	0.047	0.055
E	1.4	1.8	0.063	0.070
E ₁	2.55	2.75	0.100	0.108
b	0.25	0.40	0.0098	0.016
L ₁	0.2	0.45	0.0079	0.016
A ₁	---	0.2	---	0.008
∠	9°		9°	