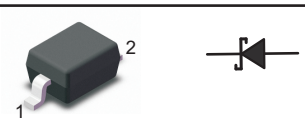
SCHOTTKY BARRIER RECTIFIERS

FEATURES

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

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Top View
Marking Code: W5
Simplified outline SOD-323 and symbol

MECHANICAL DATA

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

Maximum Ratings at 25 °C

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 Tc=25°C	P_D	350	mW
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150	°C

ELECTRICAL CHARACTERISTICS (Ta=25℃ unless otherwise specified)

Parameter		Symbols	BAT60B	Units
Maximum Forward Voltage	I_F=10 m A I_F=100 m A I_F= 500 m A I_F=1000 m A	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

Fig.1 Power Derating Curve

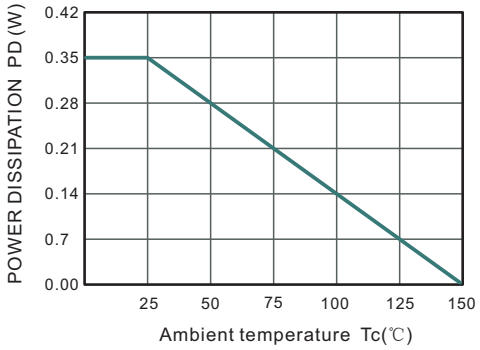


Fig.2 Typical Reverse Characteristics

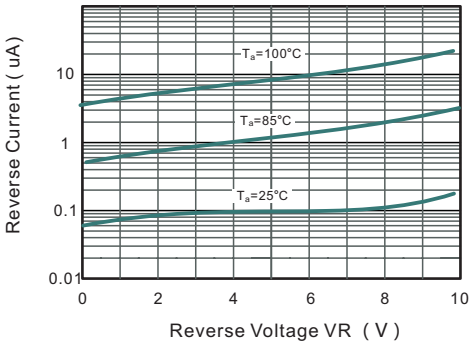


Fig.3 Typical Junction Capacitance

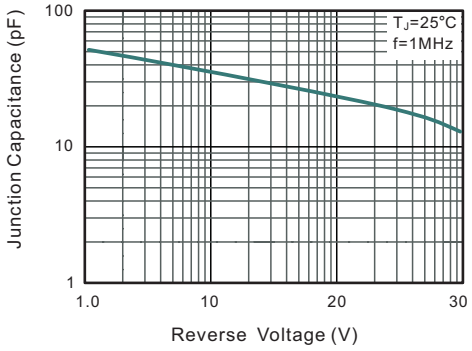


Fig.4 Typical Forward Characteristic

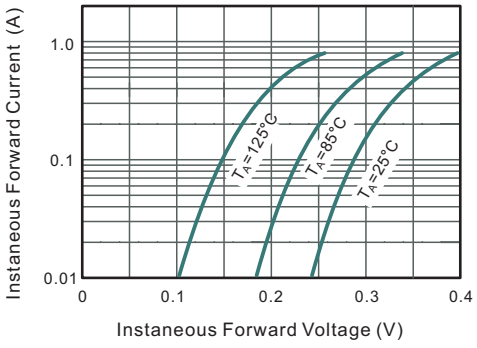
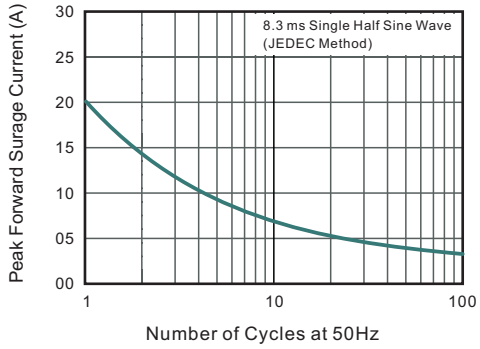


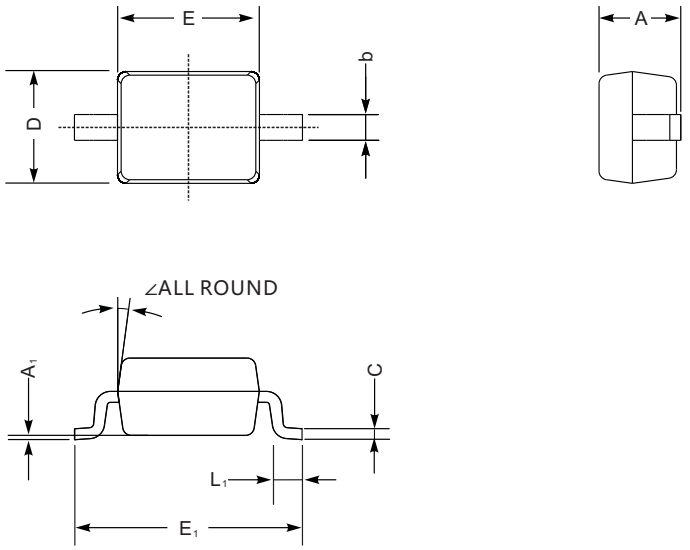
Fig.5 Maximum Non-Repetitive Peak Forward Surage Current



PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

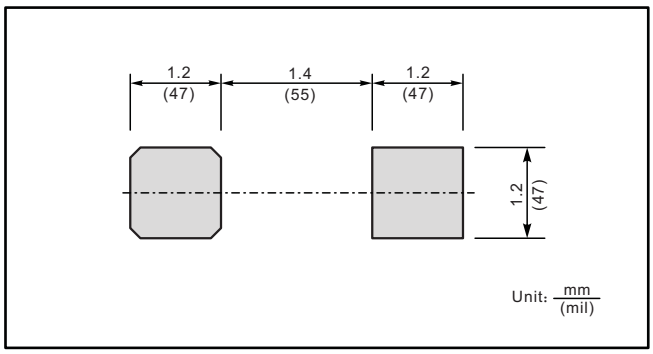
SOD-323



SOD-323 mechanical data

UNIT		A	C	D	E	E_1	b	L_1	A_1	∠
mm	max	1.1	0.15	1.4	1.8	2.75	0.4	0.45	0.2	9°
	min	0.8	0.08	1.2	1.4	2.55	0.25	0.2	—	
mil	max	43	5.9	55	70	108	16	16	8	
	min	32	3.1	47	63	100	9.8	7.9	—	

The recommended mounting pad size



Marking

Type number	Marking code
BAT60B	W5