BAT60B

10V-3A Schottky Barrier Diode

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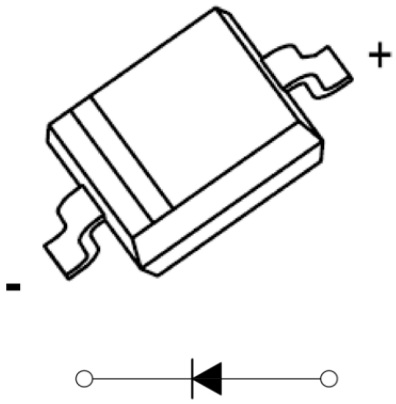
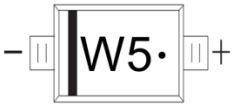
SOD-323



Feature

- Low Forward Voltage Drop
- High Forward current
- Low Voltage, Low Inductance
- For Power Supply
- For Detection and Step-up-Conversion

MARKING:



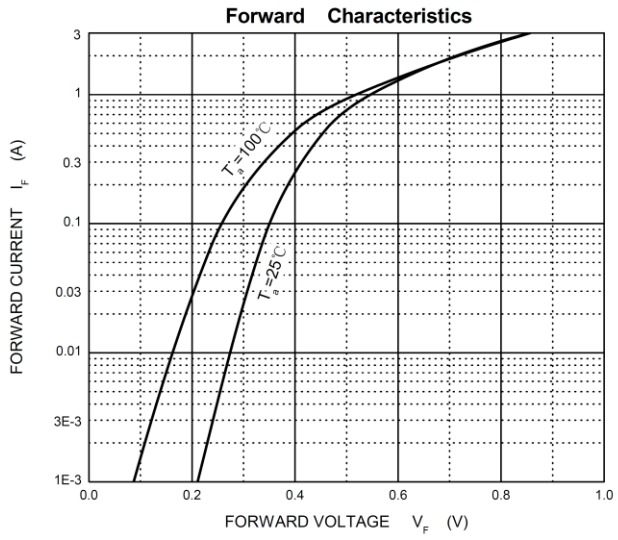
ABSOLUTE MAXIMUM RATINGS (T_A=25℃ unless otherwise noted)

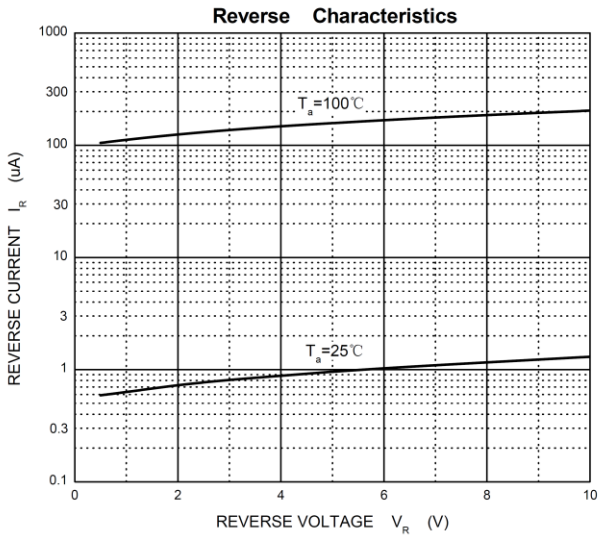
Parameter	Symbol	Value	Unit
DC reverse voltage	V_R	10	V
Forward current	I_F	3	A
Non-repetitive Peak Forward Surge Current @ t=8.3ms	I_{FSM}	5	A
Power Dissipation	P_D	0.35	W
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	286	℃/W
Junction Temperature	T_J	125	℃
Storage Temperature	T_{STG}	-55 ~ +150	℃

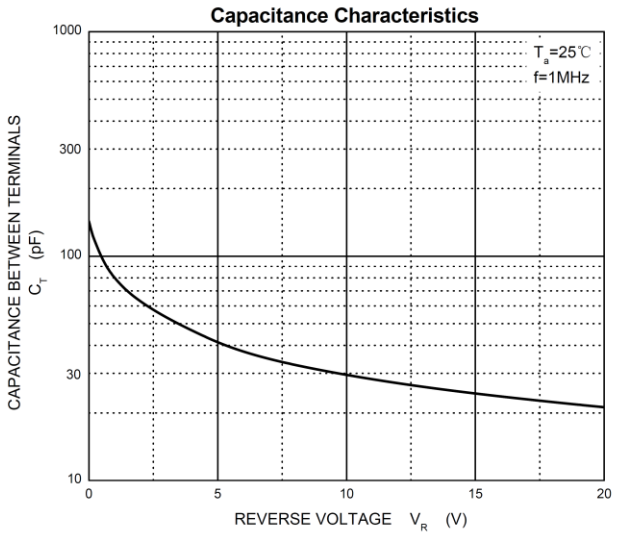
ELECTRICAL CHARACTERISTICS (T_A=25℃ unless otherwise noted)

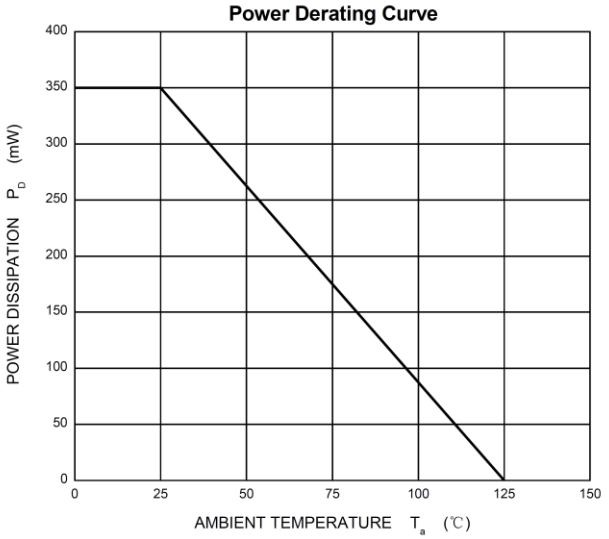
Parameter	Symbol	Test Condition	Min	Type	Max	Unit
Reverse voltage	V_{BR}	I_R =1mA	10			V
Reverse current	I_R	V_R =5V			15	μA
		V_R =8V			25	μA
Forward voltage	V_F	I_F =0.1A			0.38	V
		I_F =0.5A			0.5	V
		I_F =1A			0.6	V
Total capacitance	C_{tot}	V_R=5V, f=1MHz		30		pF

Typical Characteristics

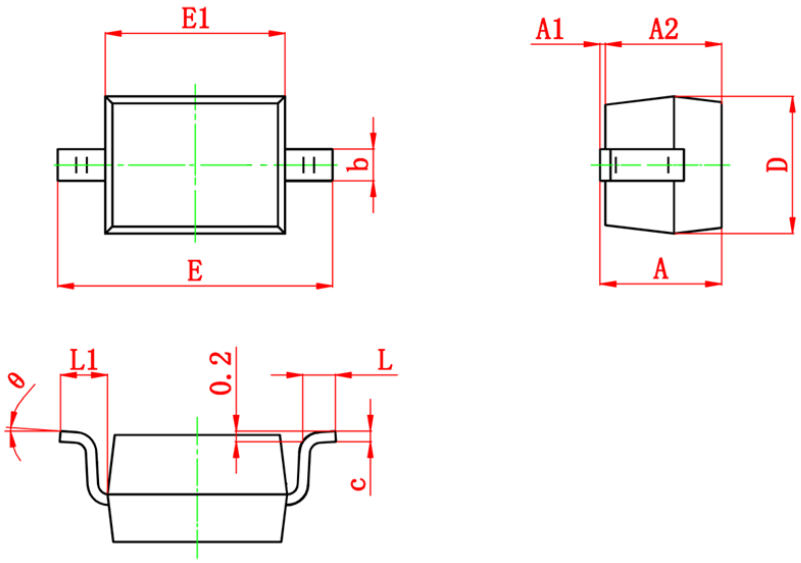








SOD-323 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	1.150MAX		0.045MAX	
A1	0.000	0.100	0.000	0.004
A2	0.800	0.900	0.031	0.035
b	0.250	0.400	0.010	0.016
c	0.080	0.180	0.003	0.007
D	1.200	1.400	0.047	0.055
E	2.500	2.800	0.098	0.110
E1	1.600	1.800	0.063	0.071
L	0.200	0.450	0.008	0.018
L1	0.475REF		0.019REF	
θ	0°	8°	0°	8°