SCHOTTKY BARRIER DIODE

Pinning

1.Cathode	2.Anode



SOD-323

Marking Code	
BAT60B	W5

FEATURES

- High Current Rectifier Schottky Diode with Low VF Drop
- Low Voltage ,Low Inductance
- For Power Supply
- For Detection and Step-up-Conversion

MECHANICAL DATA

- Case: SOD-323
- Polarity: Color band denotes cathode end
- Mounting Position: Any

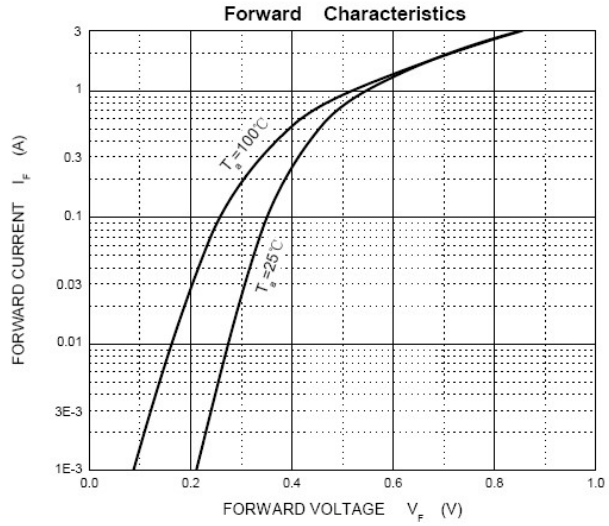
Maximum Ratings & Thermal Characteristics (Ratings at 25°C ambient temperature unless otherwise specified.)

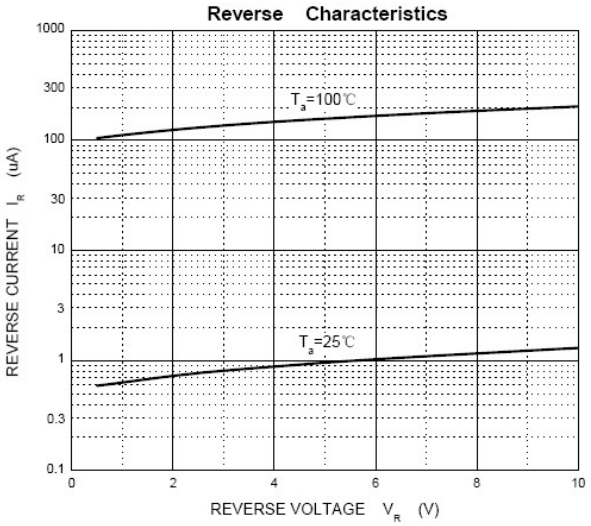
Parameter	Symbol	Value	Unit
DC Blocking Voltage	V_R	10	V
Forward Curren	I_F	3	A
Peak forward surge current 8.3 ms single half sine-wave	I_{FSM}	5	A
Power Dissipation	P_D	350	mW
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	286	℃/W
Junction temperature	T_j	125	℃
Storage temperature range	T_{STG}	-65-+150	℃

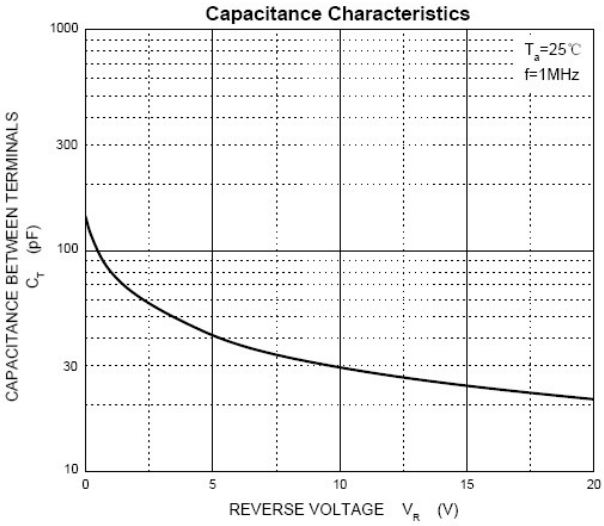
Electrical Characteristics (Ratings at 25°C ambient temperature unless otherwise specified)

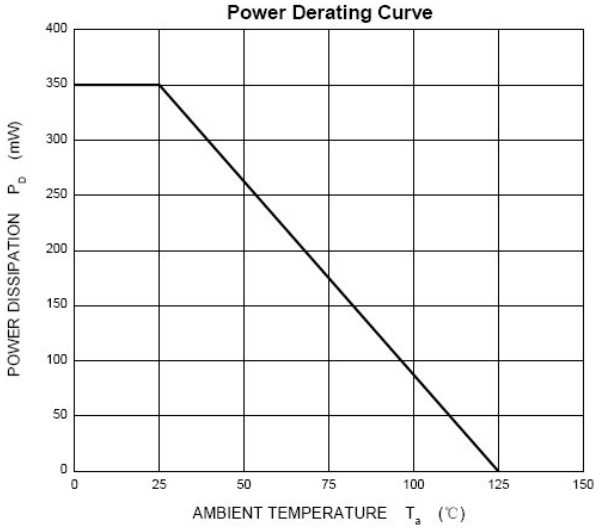
Parameter	Symbols	Test Condition	Value			Unit
			Min	Typ	Max	
forward voltage	V_F	I_F = 100mA	-	0.33	0.38	V
	V_F	I_F = 500mA	-	0.41	0.50	V
	V_F	I_F = 1000mA	-	0.45	0.60	V
Reverse breakdown voltage	$V_{(BR)}$	I_R=1mA	10	-	-	V
Maximum reverse current T_J=25°C	I_R	V_R=5V V_R=8V	-	-	15 25	μA
Diode capacitance	C_{tot}	V_R = 5.0V, f = 1MHz	-	30	-	pF

Ratings And Characteristic Curves







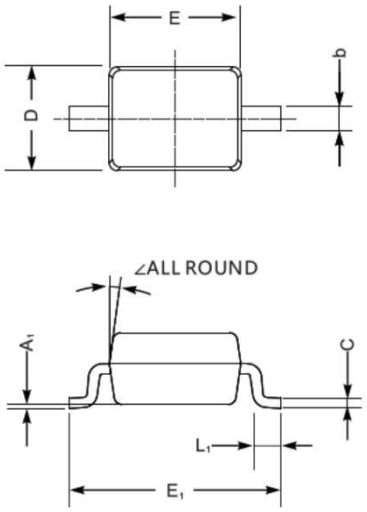


Ordering information

Package	Packing Description	Packing Quantity
SOD-323	Tape/Reel,7"reel	3000PCS/Reel 120000PCS/Carton

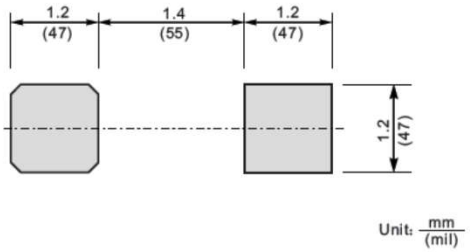
Package Dimensions

SOD-323



Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	0.8	1.1	32	43
C	0.08	0.15	3.1	5.9
D	1.2	1.4	47	55
E	1.4	1.8	63	70
E1	2.55	2.75	100	108
b	0.25	0.4	9.8	16
L1	0.2	0.45	7.9	16
A1	-	0.2	-	8
∠	9°			

The recommended mounting pad size



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