Features

- High Current Schottky Diode With Low VF Drop
- Low Voltage, Low Inductance
- For Power Supply
- For Clamping and Protection in Low Voltage Application
- For Detection and Step-up Conversion
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. “Green” Device (Note 1)
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

250mW, 10 Volt Schottky Barrier Diode

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 500°C/W Junction to Ambient

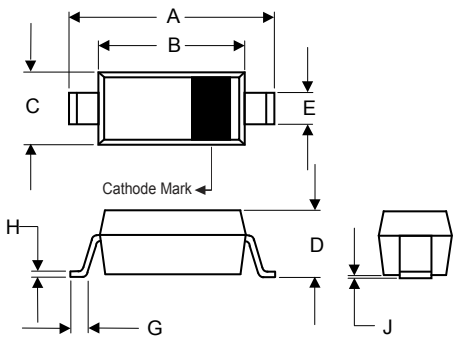
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
BAT60B	W5	10V	7V	10V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	3A	-
Peak Forward Surge Current	I_{FSM}	5A	t=8.3ms
Power Dissipation	P_d	250mW	T_A=25°C
Maximum Instantaneous Forward Voltage	V_F	300mV 380mV 500mV 600mV	I_F=10mA I_F=100mA I_F=500mA I_F1000mA
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	15μA 25μA	V_R=5V V_R=8V
Maximum Junction Capacitance	C_T	30pF	Measured at 1.0MHz, V_R=5.0V

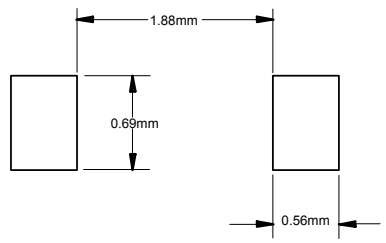
Note: 1. Halogen free "Green” products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

SOD-323



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.090	0.107	2.30	2.70	
B	0.063	0.071	1.60	1.80	
C	0.045	0.053	1.15	1.35	
D	0.031	0.045	0.80	1.15	
E	0.010	0.016	0.25	0.40	
G	0.004	0.018	0.10	0.45	
H	0.004	0.010	0.10	0.25	
J	-----	0.006	-----	0.15	

Suggested Solder Pad Layout



Curve Characteristics

Fig. 1 - Typical Instantaneous Forward Characteristics

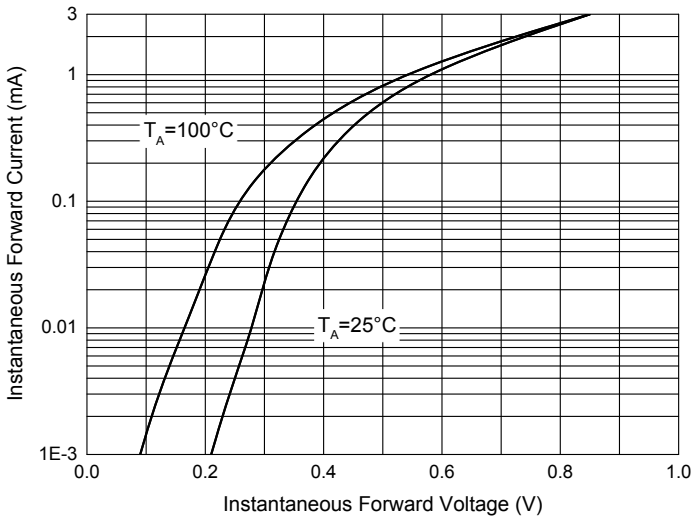


Fig. 2 - Typical Reverse Leakage Characteristics

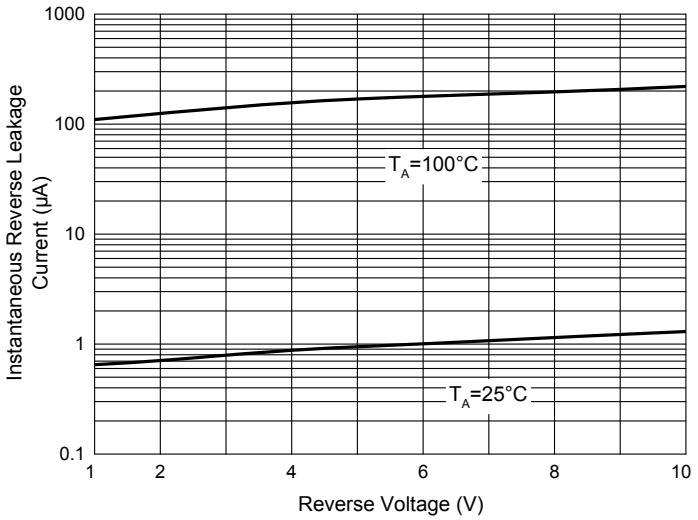
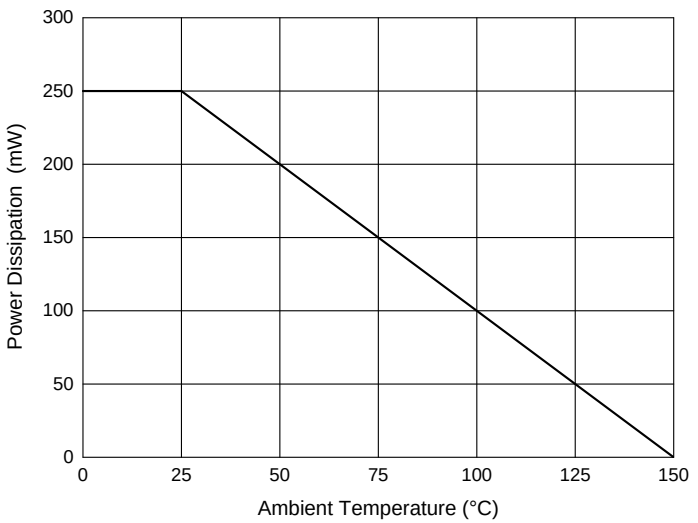


Fig. 3 - Power Derating Curve



Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel