

Features

- Low Turn-on Voltage.
- Fast Switching
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 667°C/W Junction to Ambient

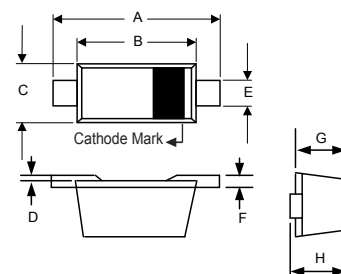
MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
BAS40X	40V	28V	40V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I_F	200mA	
Peak Forward Surge Current	I_{FSM}	600mA	
Power Dissipation	P_d	150mW	
Maximum Forward Voltage	V_F	380mV 1000mV	$t_p < 300\mu s, I_F = 1.0mA$ $t_p < 300\mu s, I_F = 40mA$
DC Reverse Current At Rated DC Blocking Voltage	I_R	20nA(Typ) 200nA(Max)	$V_R = 30V$
Reverse Breakdown Voltage	V_{BR}	40V(Min)	$I_R = 100\mu A$
Typical Junction Capacitance	C_j	4.0pF	Measured at 1.0MHz, $V_R = 0.0V$
Reverse Recovery Time	T_{rr}	5.0ns(Max)	$I_F = I_R = 10mA$ to $I_R = 1.0mA, R_L = 100\Omega$

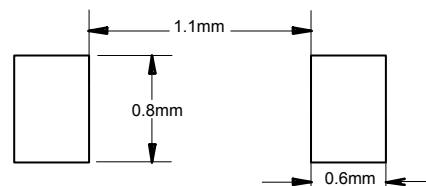
150mW, 40Volt Schottky Barrier Diode

SOD-523



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.059	0.067	1.50	1.70	
B	0.043	0.051	1.10	1.30	
C	0.030	0.033	0.75	0.85	
D	0.001	0.003	0.01	0.07	
E	0.010	0.014	0.25	0.35	
F	0.003	0.006	0.08	0.15	
G	0.020	0.028	0.50	0.70	
H	0.020	0.031	0.51	0.77	

Suggested Solder Pad Layout



Curve Characteristics

Fig. 1 - Typical Instantaneous Forward Characteristics

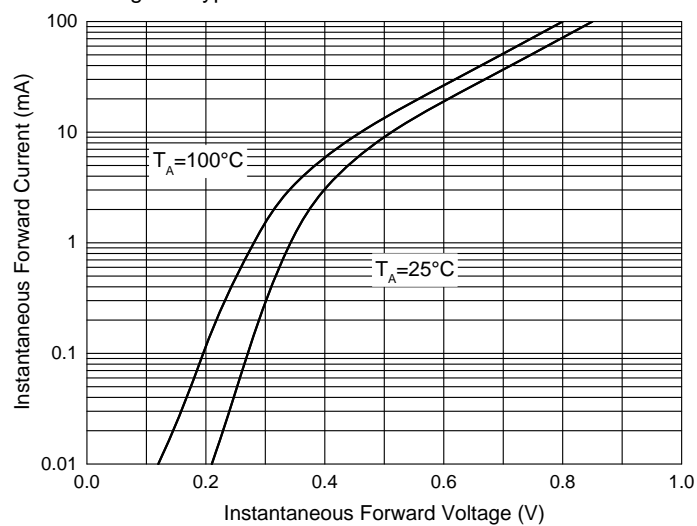


Fig. 2 - Typical Reverse Leakage Characteristics

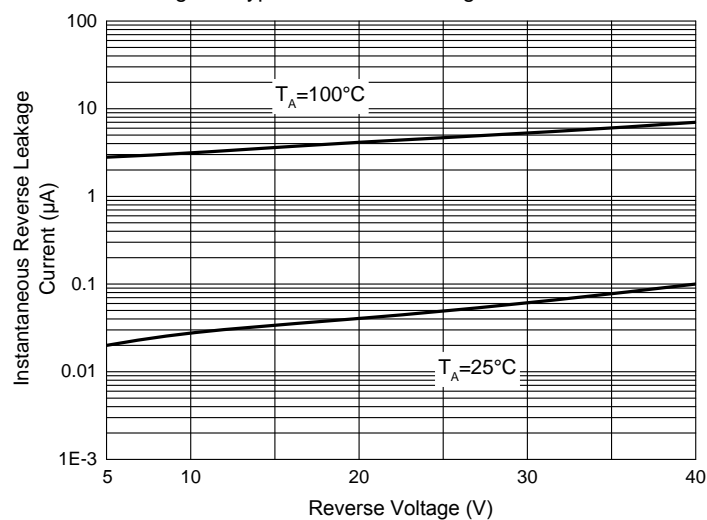
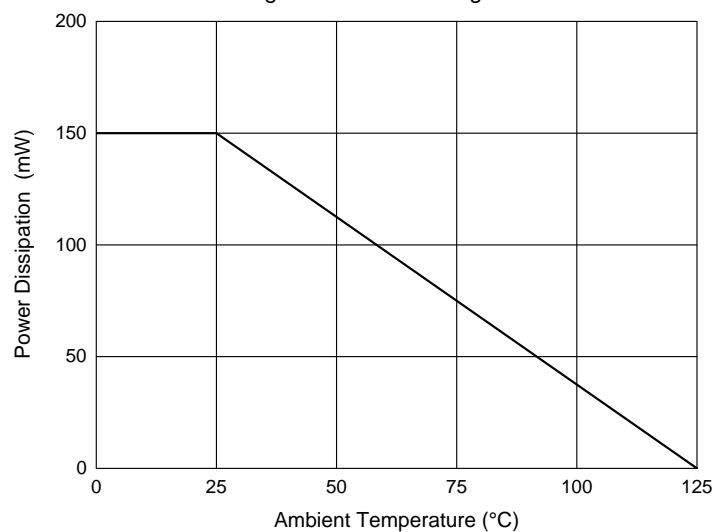


Fig. 3 - Power Derating Curve



Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 8Kpcs/Reel

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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