Features

- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Halogen Free. “Green” Device (Note 1)
- Lead Free Finish/Rohs Compliant ("P"Suffix Designates RoHS Compliant See ordering information)
- AEC-Q101Qualified

200mW,40V Schottky Barrier Diode

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance(Note2): 625°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
BAS40WTHE3	43	40V	28V	40V
BAS40WT-04HE3	44	40V	28V	40V
BAS40WT-05HE3	45	40V	28V	40V
BAS40WT-06HE3	46	40V	28V	40V

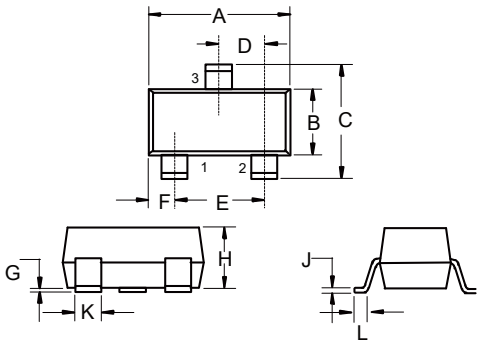
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	120mA	25°C
Non-repetitive Peak Forward Surge Current	I_{FSM}	600mA	t<10ms
Power Dissipation	P_d	200mW	T_A= 25 °C
Maximum Forward Voltage	V_F	380mV 1000mV	I_F=1.0mA I_F=40mA
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	0.2μA	V_R = 30V
Minimum Reverse Breakdown Voltage	$V_{(BR)}$	40V	I_R=10μA
Max Junction Capacitance	C_J	5.0pF	Measured at 1.0MHz, V_R=0V
Max Reverse Recovery Time	t_{rr}	5.0ns	I_{rr}=0.5mA, I_R=I_F=5mA R_L=100Ω

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

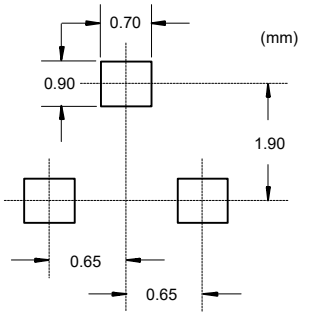
Note: 2. Part mounted on FR-4 board with recommended pad layout.

SOT-323

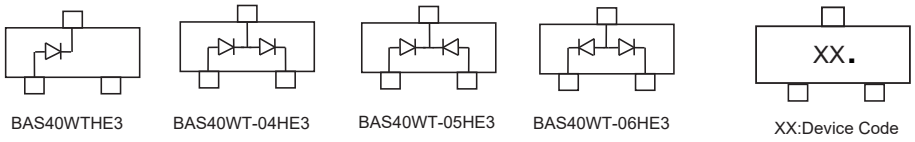


DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.071	0.087	1.80	2.20	
B	0.045	0.053	1.15	1.35	
C	0.083	0.096	2.10	2.45	
D	0.026		0.65		TYP.
E	0.047	0.055	1.20	1.40	
F	0.012	0.016	0.30	0.40	
G	0.000	0.004	0.00	0.10	
H	0.035	0.044	0.90	1.10	
J	0.002	0.010	0.05	0.25	
K	0.006	0.016	0.15	0.40	
L	0.010	0.018	0.26	0.46	

Suggested Solder Pad Layout



Internal Structure and Marking Code



BAS40WTHE3 BAS40WT-04HE3 BAS40WT-05HE3 BAS40WT-06HE3

XX:Device Code

Curve Characteristics

Fig. 1 - Typical Instantaneous Forward Characteristics

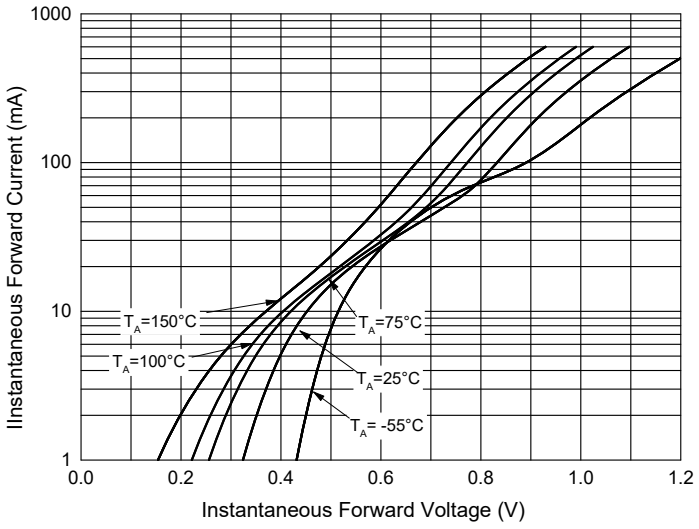


Fig. 2 - Typical Reverse Leakage Characteristics

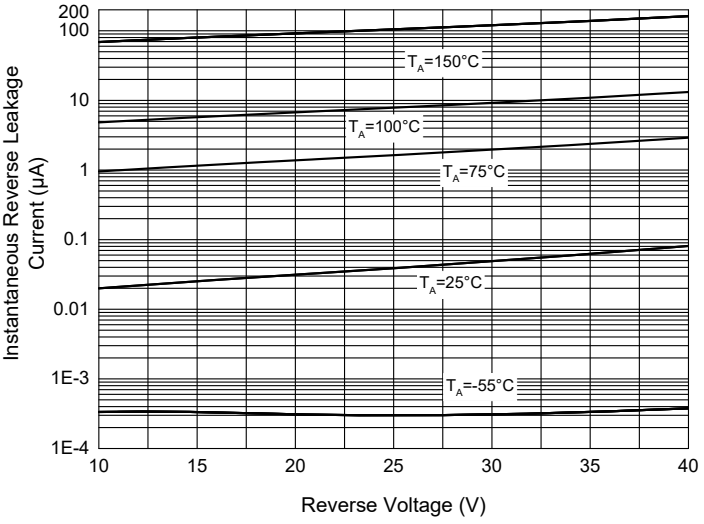


Fig. 3- Capacitance Characteristics

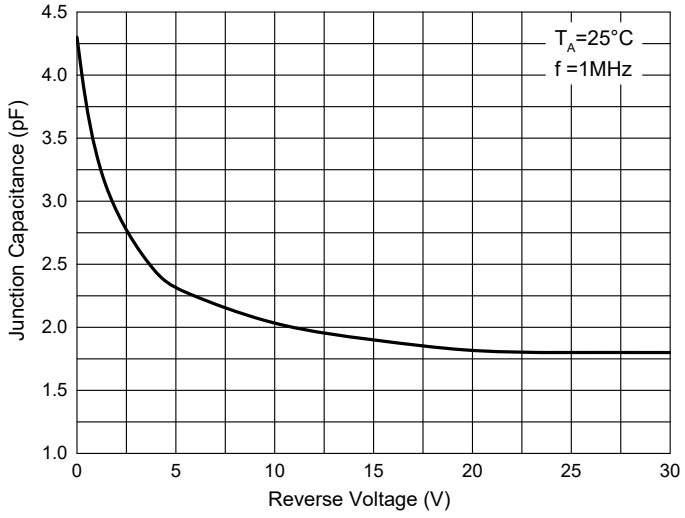
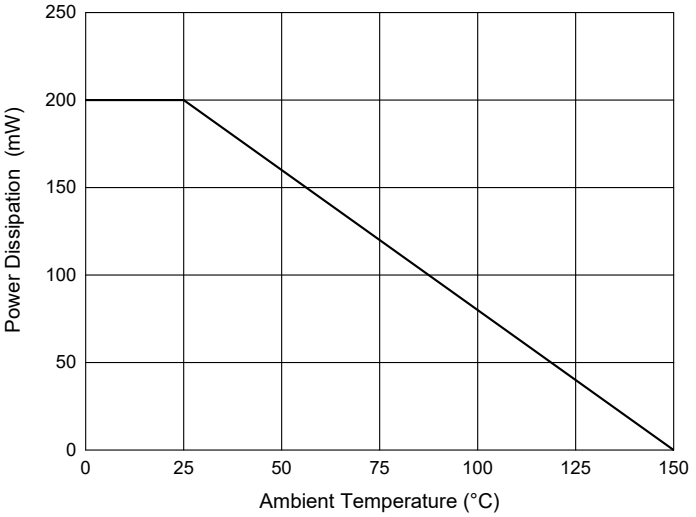


Fig. 4 - Power Derating Curve



Ordering Information

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

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