

Features

- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/Rohs Compliant ("P"Suffix Designates RoHS Compliant See ordering information)

Maximum Ratings

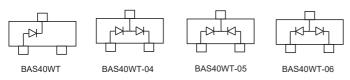
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 625°C/W Junction to Ambient

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

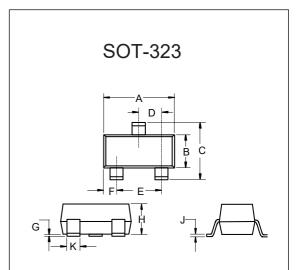
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	200mA	25°C
Peak Forward Surge Current	I _{FSM}	600mA	t<1s
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	1µA	V _R = 30V
Reverse Breakdown Voltage	V _(BR)	40V	I _R =10μA
Typical Junction Capacitance	C _d	5.0pF	Measured at 1.0MHz, V _R =0V
Reverse Recovery Time	t _{rr}	5.0ns	I_{rr} =1mA, I_{R} = I_{F} =10mA R_{L} =100 Ω

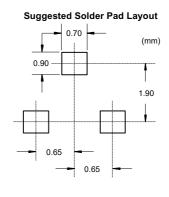
Internal Structure:



200mW,40V Schottky Barrier Diode



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN M	MAX	INOTE
Α	0.071	0.087	1.80	2.20	
В	0.045	0.053	1.15	1.35	
С	0.083	0.096	2.10	2.45	
D	0.026	lominal	0.65 N	ominal	
Е	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	
Н	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	





Curve Characteristics

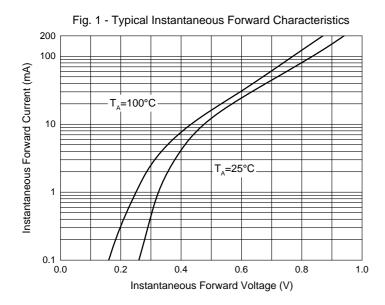


Fig. 2 - Typical Reverse Leakage Characteristics

Too

Tool

Fig. 3 - Power Derating Curve

250
200
150
50
0 25 50 75 100 125 150
Ambient Temperature (°C)

Rev.3-2-09202019 2/3 MCCSEMI.COM



Ordering Information

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

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

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. **Micro Commercial Components Corp**. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold **Micro Commercial Components Corp**, and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources. MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

Rev.3-2-09202019 3/3 MCCSEMI.COM