

# **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**

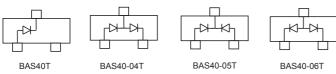
- Operating Junction Temperature Range: -65°C to +125°C
- Storage Temperature Range: -65°C to +150°C
- Thermal Resistance: 667°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum DC Blocking Voltage
BAS40T	43	40V	40V
BAS40-04T	44	40V	40V
BAS40-05T	45	40V	40V
BAS40-06T	46	40V	40V

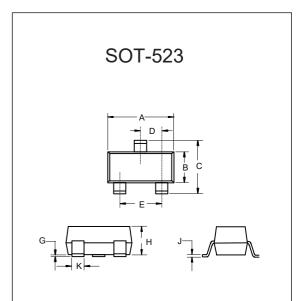
## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I <sub>F(AV)</sub>	200mA	
Power Dissipation	P <sub>d</sub>	150mW	T <sub>A</sub> = 25 °C
Maximum Forward Voltage	V <sub>F</sub>	380mV 1000mV	I <sub>F</sub> =1.0mA I <sub>F</sub> =40mA
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	0.2μΑ	V <sub>R</sub> = 30V
Reverse Breakdown Voltage	$V_{(BR)}$	40V	I <sub>R</sub> =10μA
Total Capacitance	Ст	5.0pF	Measured at 1.0MHz, V <sub>R</sub> =0V
Reverse Recovery Time	t <sub>rr</sub>	5.0ns	$I_F = I_R = 10 \text{mA},$ $I_{rr} = 1 \text{mA}, R_L = 100 \Omega$

## **Internal Structure:**

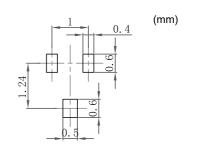


# 150mW,40V Schottky Barrier Diode



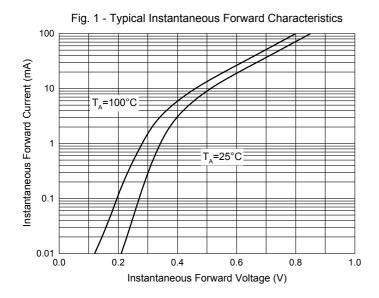
DIMENSIONS						
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX	NOTE	
Α	0.059	0.067	1.50	1.70		
В	0.030	0.033	0.75	0.85		
С	0.057	0.069	1.45	1.75		
D	0.020 Nominal		0.50 Nominal			
E	0.035	0.043	0.90	1.10		
G	0.000	0.004	0.00	0.10		
Н	0.024	0.031	0.60	0.80		
J	0.004	0.008	0.10	0.20		
K	0.006	0.014	0.15	0.35		

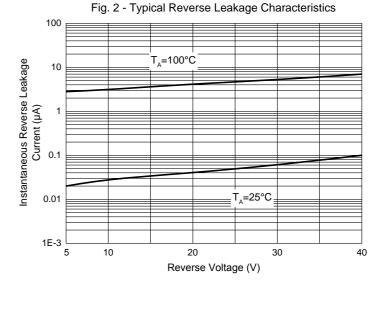
## **Suggested Solder Pad Layout**

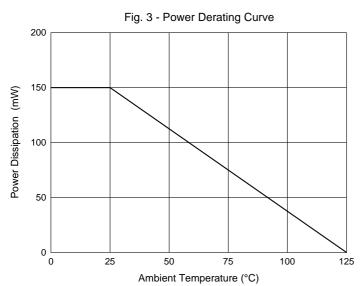




# **Curve Characteristics**









# **Ordering Information**

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

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

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Rev.3-1-01012019 3/3 MCCSEMI.COM