

# 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**

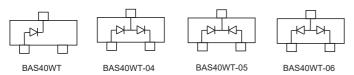
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 625°C/W Junction to Ambient

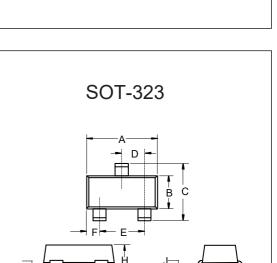
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum DC Blocking Voltage
BAS40WT	43/K43/S40	40V	40V
BAS40WT-04	44/K44/S42	40V	40V
BAS40WT-05	45/K45/S43	40V	40V
BAS40WT-06	46/K46/S44	40V	40V

# Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I <sub>F(AV)</sub>	200mA	25°C
Peak Forward Surge Current	I <sub>FSM</sub>	600mA	t<1s
Power Dissipation	P <sub>d</sub>	200mW	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>	1μΑ	V <sub>R</sub> = 30V
Reverse Breakdown Voltage	V <sub>(BR)</sub>	40V	I <sub>R</sub> =10μΑ
Typical Junction Capacitance	C <sub>d</sub>	5.0pF	Measured at 1.0MHz, V <sub>R</sub> =0V
Reverse Recovery Time	t <sub>rr</sub>	5.0ns	I <sub>rr</sub> =1mA, I <sub>R</sub> =I <sub>F</sub> =10mA R <sub>L</sub> =100Ω

#### Internal Structure:





200mW,40V

Schottky Barrier

Diode

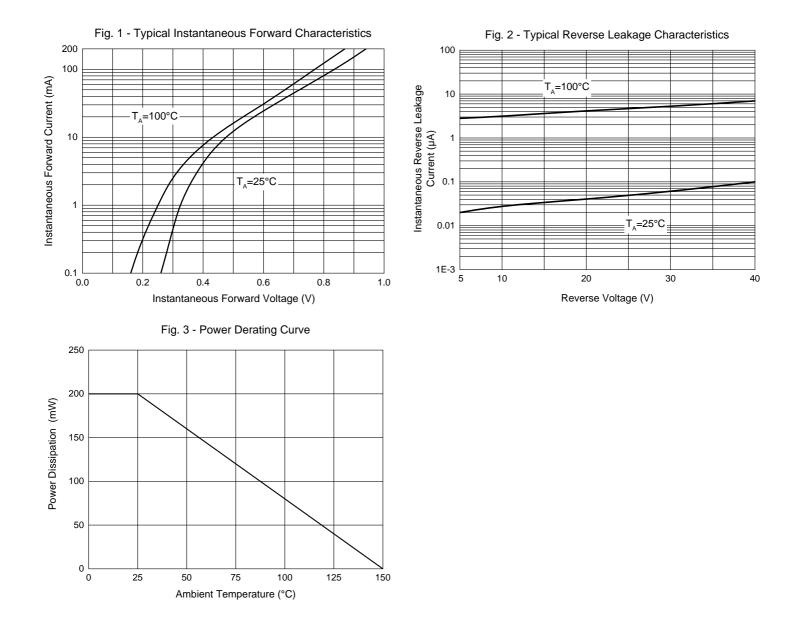
	DIMENSIONS							
DIM	INCHES		MM		NOTE			
	MIN	MAX	MIN	MAX	NOTE			
Α	0.071	0.087	1.80	2.20				
В	0.045	0.053	1.15	1.35				
С	0.083	0.096	2.10	2.45				
D	0.026 Nominal		0.65 Nominal					
E	0.047	0.055	1.20	1.40				
F	0.012	0.016	0.30	0.40				
G	0.000	0.004	0.00	0.10				
Н	0.035	0.044	0.90	1.10				
J	0.002	0.010	0.05	0.25				
K	0.006	0.016	0.15	0.40				

# Suggested Solder Pad Layout

#### Rev.3-1-01012019



# **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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