

Features

- Ultra-Small Surface Mount Package
- Low turn on Voltage
- Fast Switching
- PN Junction Guard Ring for Transient and ESD Protection
- Epoxy Meets UL 94 V-0 Flammability Rating
 Moisture Sensitivity Level 1
- Halogen Free. "Green" Device (Note 1)

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

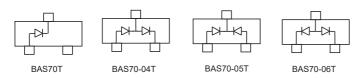
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum DC Blocking Voltage
BAS70T	7C	70V	70V
BAS70-04T	7D	70V	70V
BAS70-05T	7E	70V	70V
BAS70-06T	7F	70V	70V

Electrical Characteristics @ 25°C Unless Otherwise Specified

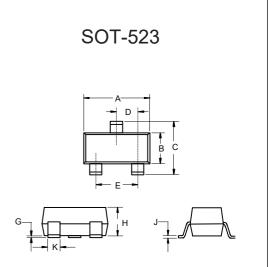
Average Forward Current	I _{F(AV)}	70mA	
Power Dissipation	P _d	150mW	T _A = 25 °C
Peak Forward Surge Current	I _{FSM}	100mA	t<1s
Maximum		410mV	I _F =1.0mA
Forward Voltage	V _F	1000mV	I _F =15mA
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	0.1µA	V _R = 50V
Maximum Reverse Breakdown Voltage	V _(BR)	>70V	Ι _R =10μΑ
Maximum Total Capacitance	C _T	2.0pF	Measured at 1.0MHz, V _R =0V
Maximum Reverse Recovery Time	t _{rr}	5.0ns	$I_F = I_R = 10 \text{mA},$ $I_{rr} = 1 \text{mA}, R_L = 100 \Omega$

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

Internal Structure:

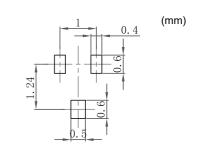






DIMENSIONS						
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX	NOTE	
А	0.059	0.067	1.50	1.70		
В	0.030	0.033	0.75	0.85		
С	0.057	0.069	1.45	1.75		
D	0.020 Nominal		0.50 Nominal			
Е	0.035	0.043	0.90	1.10		
G	0.000	0.004	0.00	0.10		
Н	0.024	0.031	0.60	0.80		
J	0.004	0.008	0.10	0.20		
K	0.006	0.014	0.15	0.35		

Suggested Solder Pad Layout





Curve Characteristics

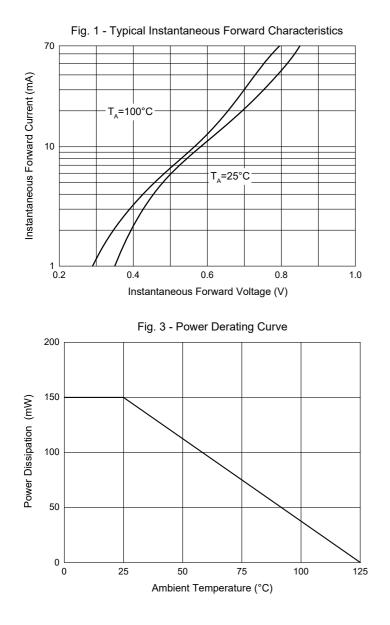
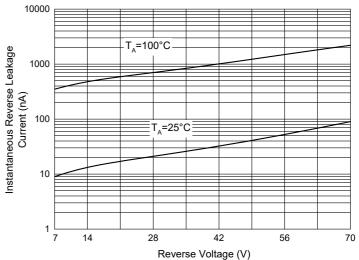


Fig. 2 - Typical Reverse Leakage Characteristics





Ordering Information

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

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. *Micro Commercial Components Corp*. products are sold subject to the general terms and conditions of commercial sale, as published at

https://www.mccsemi.com/Home/TermsAndConditions.

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.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Micro Commercial Components (MCC):

BAS70T-TP BAS70-05T-TP BAS70-04T-TP BAS70-06T-TP