



Micro Commercial Components
 20736 Marilla Street Chatsworth
 CA 91311
 Phone: (818) 701-4933
 Fax: (818) 701-4939

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

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

MCC Part Number	Device Marking	Type	Pin Configuration
BAS70T	7C	Single	Figure 1
BAS70-04T	7D	Dual	Figure 2
BAS70-05T	7E	Dual	Figure 3
BAS70-06T	7F	Dual	Figure 4

Maximum Ratings

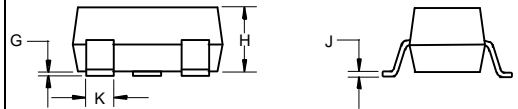
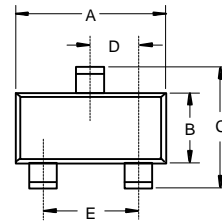
DC Blocking Voltage	V_R	70V
Forward Continuous Current	I_F	70mA
Non-Repetitive Peak Forward Current $t < 1s$	I_{FSM}	100mA
Total Power Dissipation @ $T_A = 25^\circ C$	P_D	150mW
Storage Temperature Range	T_{stg}	$-55^\circ C$ to $150^\circ C$
Junction Temperature	T_j	$-55^\circ C$ to $150^\circ C$

Electrical Characteristics @ 25°C Unless Otherwise Specified

Ratings	Symbol	Max.	Notes
Forward Voltage	V_F	410mV 1000mV	$I_F = 1mA$ $I_F = 15mA$
Reverse Current	I_R	100nA	$V_R = 50V$
Reverse Breakdown Voltage	$V_{(BR)}$	>70V	$I_R = 10uA$
Total Capacitance	C_T	2pF	Measured at 1.0MHz, $V_R = 0V$
Reverse Recovery Time	t_{rr}	5nS	$I_F = I_R = 10mA$; $I_{rr} = 0.1 * I_R$ $R_L = 100 \Omega$

**150mWatt, 70Volt
Schottky Barrier Diode**

SOT-523



DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.059	.067	1.50	1.70	
B	.030	.033	0.75	0.85	
C	.057	.069	1.45	1.75	
D	.020 Nominal		0.50 Nominal		
E	.035	.043	0.90	1.10	
G	.000	.004	.000	.100	
H	.028	.031	.70	0.80	
J	.004	.008	.100	.200	
K	.010	.014	.25	.35	

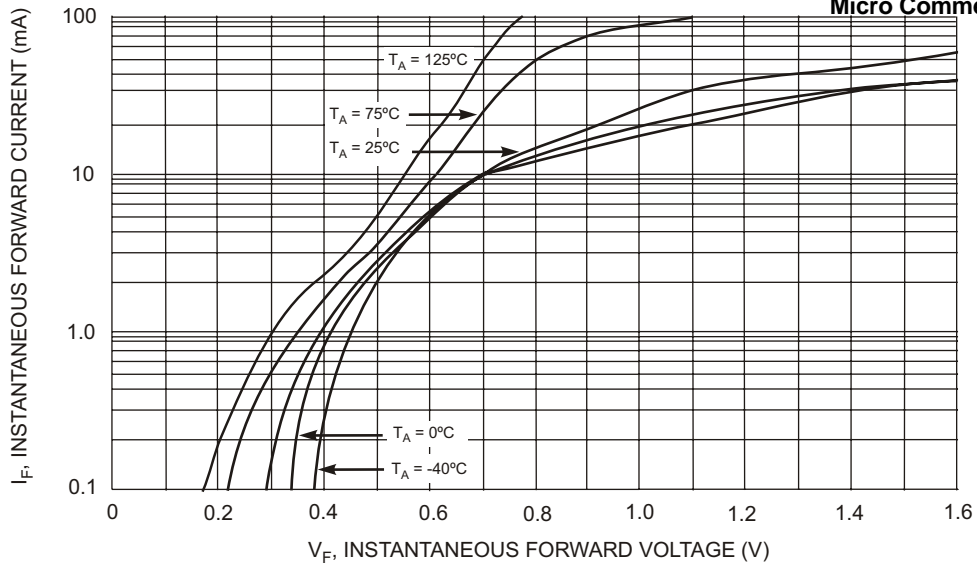


Fig. 1 Typical Forward Characteristics

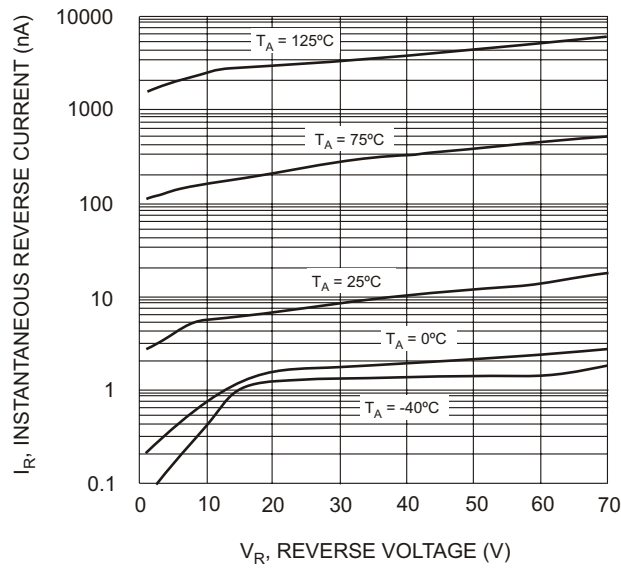


Fig. 2 Typical Reverse Characteristics

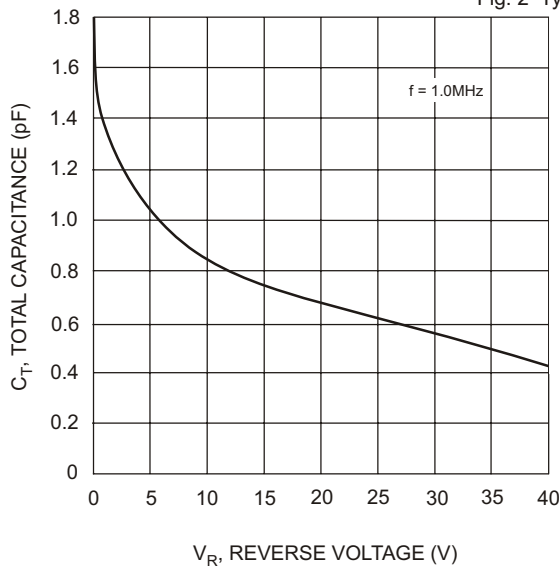


Fig. 3 Typical Capacitance

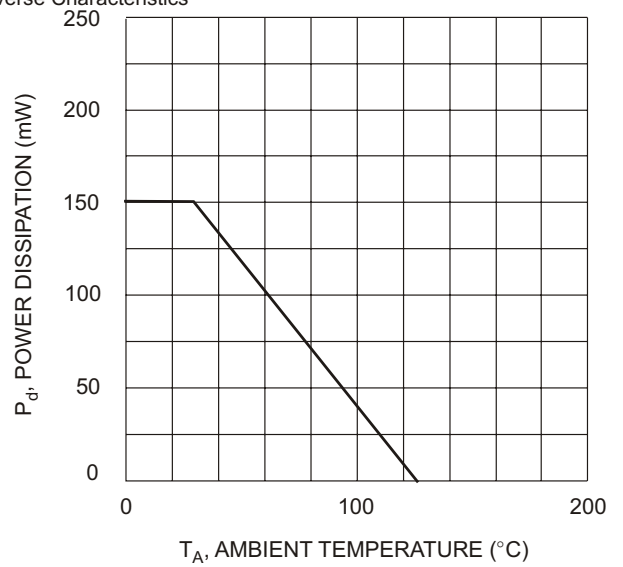


Fig. 4 Power Derating Curve, Total Package

Pin Configuration - Top View

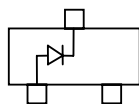


Figure 1

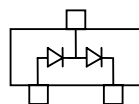


Figure 2

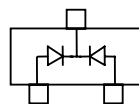


Figure 3

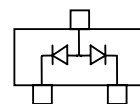


Figure 4



Micro Commercial Components

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.

*****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.