

## **Features**

- Surface Mount Package Ideally Suited for Automatic Insertion
- PN Junction Guard Ring for Transient and ESD Protection
- Low Turn-on Voltage
- Fast Switching
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

## **Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 500°C/WJunction to Ambient

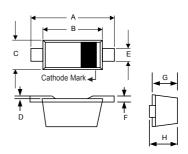
MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
BAS70X	70V	49V	70V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I <sub>F</sub>	70mA	
Peak Forward Surge Current	I <sub>FSM</sub>	100mA	
Power Dissipation	P <sub>d</sub>	200mW	
Maximum Forward Voltage	V <sub>F</sub>	410mV 1000mV	$t_p$ <300µs, $I_F$ =1.0mA $t_p$ <300µs, $I_F$ =15mA
DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	100nA(Max)	tp<300μs,V <sub>R</sub> = 50V
Maximum Junction Capacitance	C <sub>j</sub>	2.0pF	Measured at 1.0MHz, V <sub>R</sub> =0.0V
Maximum Reverse Recovery Time	Trr	5.0ns	$I_F = I_R = 10 \text{mA}$ $I_R = 1.0 \text{mA}, R_L = 100 \Omega$

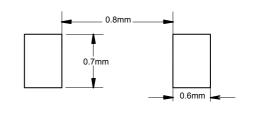
# 200mW, 70Volt Schottky Barrier Diode





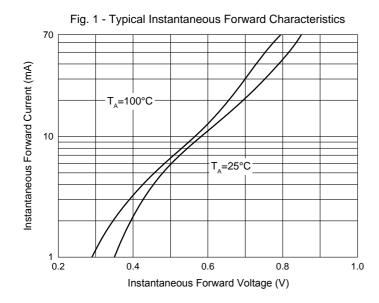
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	0.059	0.067	1.50	1.70	
В	0.043	0.051	1.10	1.30	
С	0.030	0.033	0.75	0.85	
D	0.000	0.003	0.00	0.07	
Е	0.010	0.014	0.25	0.35	
F	0.003	0.008	0.08	0.20	
G	0.020	0.026	0.50	0.65	
Н	0.020	0.026	0.50	0.65	

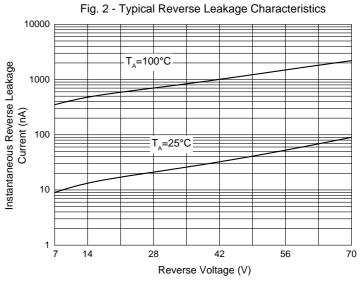
### Suggested Solder Pad Layout

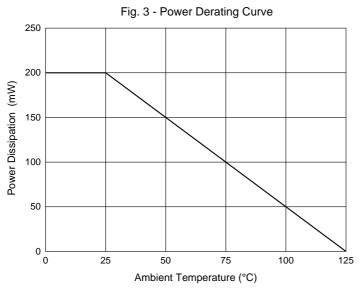




## **Curve Characteristics**









## **Ordering Information**

Device	Packing	
Part Number-TP	Tape&Reel: 8Kpcs/Reel	
Part Number-T3P	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.