

## 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**

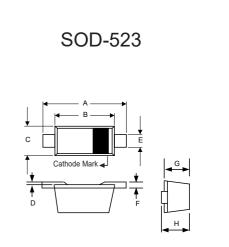
- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 500°C/WJunction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
BAS70X	K73	70V	49V	70V

### Electrical Characteristics @ 25°C Unless Otherwise Specified

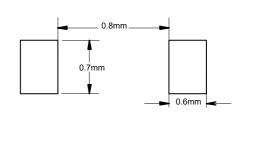
Average Forward Current	I <sub>F</sub>	70mA	
Repetitive Peak Forward Current	I <sub>FRM</sub>	70mA	tp ≤ 1s; Duty Cycle ≤ 50%
Peak Forward Surge Current	I <sub>FSM</sub>	100mA	t=8.3ms
Power Dissipation	$P_{d}$	200mW	
Maximum	V <sub>F</sub>	410mV	t <sub>p</sub> <300µs,I <sub>F</sub> =1.0mA
Forward Voltage		1000mV	t <sub>p</sub> <300µs,I <sub>F</sub> =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	Cj	2.0pF	Measured at 1.0MHz, V <sub>R</sub> =0.0V
Maximum Reverse Recovery Time	Trr	5.0ns	I <sub>F</sub> =I <sub>R</sub> =10mA I <sub>R</sub> =1.0mA,R <sub>L</sub> =100Ω

# 200mW, 70Volt Schottky Barrier Diode



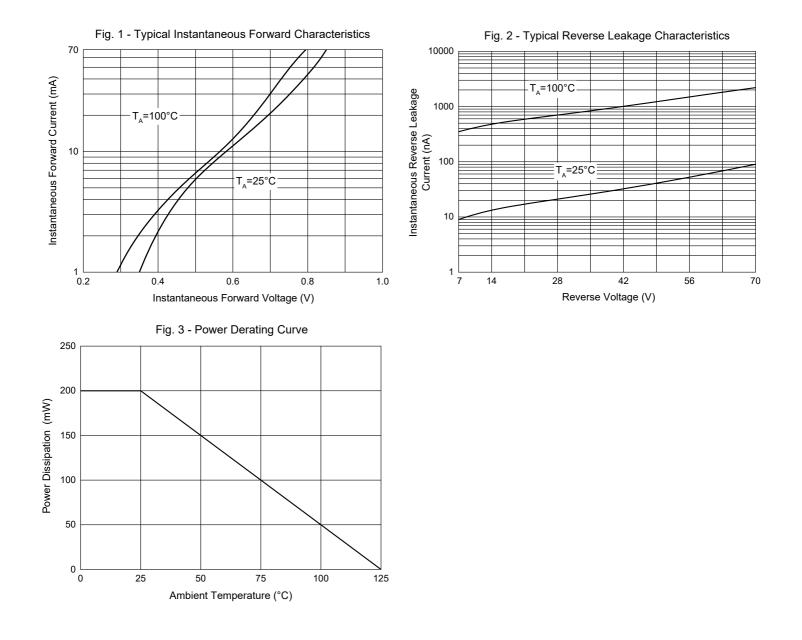
	DIMENSIONS						
DIM	INCHES		MM		NOTE		
	MIN	MAX	MIN	MAX	NOTE		
Α	0.059	0.067	1.50	1.70			
В	0.043	0.051	1.10	1.30			
С	0.030	0.033	0.75	0.85			
D	0.000	0.003	0.00	0.07			
E	0.010	0.014	0.25	0.35			
F	0.003	0.008	0.08	0.20			
G	0.020	0.026	0.50	0.65			
Н	0.020	0.026	0.50	0.65			

#### Suggested Solder Pad Layout





## **Curve Characteristics**





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

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

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