

### **Features**

- Halogen Free. "Green" Device (Note 1)
- AEC-Q101 Qualified
- Low Forward Voltage and Reverse Recovery Characteristics
- Epoxy Meets UL 94 V-0 Flammability Rating
- 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/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum DC Blocking Voltage
BAS70HE3	73	70V	70V
BAS70-04HE3	74	70V	70V
BAS70-05HE3	75	70V	70V
BAS70-06HE3	76	70V	70V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I <sub>F(AV)</sub>	70mA	25°C
Peak Forward Surge Current	I <sub>FSM</sub>	100mA	tp<1s, Ta=25°C
Power Dissipation	P <sub>d</sub>	200mW	T <sub>A</sub> = 25 °C
Maximum Forward Voltage	V <sub>F</sub>	410mV 1000mV	I <sub>F</sub> =1.0mA I <sub>F</sub> =15mA
DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	10 nA(TYP) 200nA(MAX)	tp < 300µs,V <sub>R</sub> = 50V
Min Reverse Breakdown Voltage	$V_{BR}$	70V	I <sub>R</sub> =10μA
Typical Junction Capacitance	C <sub>T</sub>	2.0pF	Measured at 1.0MHz, V <sub>R</sub> =0.0V
Maximum Reverse Recovery Time	t <sub>rr</sub>	5.0ns	Irr=1mA, IR=IF=10mA RL=100Ω

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:**

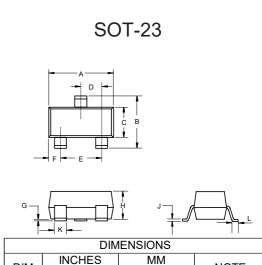






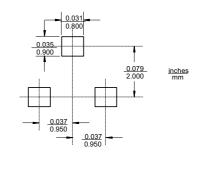


# 200mW,70V Schottky Barrier Diode



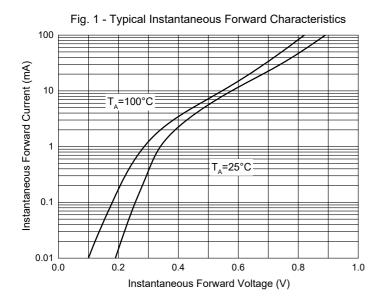
	DIMENSIONS						
DIM	INCHES		MM		NOTE		
	MIN	MAX	MIN	MAX	NOIL		
Α	0.110	0.120	2.80	3.04			
В	0.083	0.104	2.10	2.64			
С	0.047	0.055	1.20	1.40			
D	0.034	0.041	0.85	1.05			
Е	0.067	0.083	1.70	2.10			
F	0.018	0.024	0.45	0.60			
G	0.0004	0.006	0.01	0.15			
Н	0.035	0.043	0.90	1.10			
J	0.003	0.007	0.08	0.18			
K	0.012	0.020	0.30	0.51			
L	0.007	0.020	0.20	0.50			

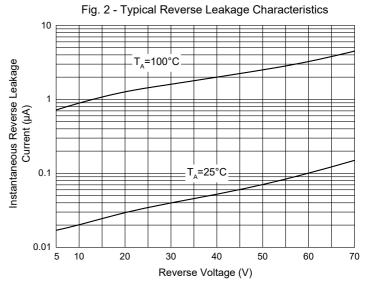
### Suggested Solder Pad Layout

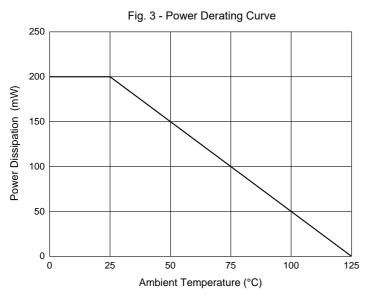




## **Curve Characteristics**









## **Ordering Information**

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

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