Features

- Low Forward Voltage and Reverse Recovery Characteristics
- Halogen Free. “Green” Device (Note 1)
- 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)

200mW,70V Schottky Barrier Diode

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

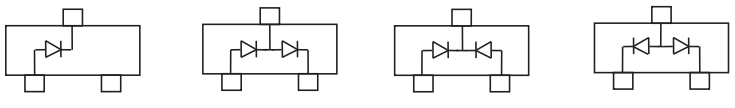
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum DC Blocking Voltage
BAS70	73	70V	70V
BAS70-04	74	70V	70V
BAS70-05	75	70V	70V
BAS70-06	76	70V	70V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	70mA	25°C
Peak Forward Surge Current	I_{FSM}	100mA	tp<1s, Ta=25°C
Power Dissipation	P_d	200mW	T_A= 25 °C
Maximum Forward Voltage	V_F	410mV 1000mV	I_F=1.0mA I_F=15mA
DC Reverse Current At Rated DC Blocking Voltage	I_R	10 nA(TYP) 200nA(MAX)	tp < 300μs,V_R = 50V
Min Reverse Breakdown Voltage	V_{BR}	70V	I_R=10μA
Typical Junction Capacitance	C_T	2.0pF	Measured at 1.0MHz, V_R=0.0V
Maximum Reverse Recovery Time	t_{rr}	5.0ns	Irr=1mA, IR=IF=10mA RL=100Ω

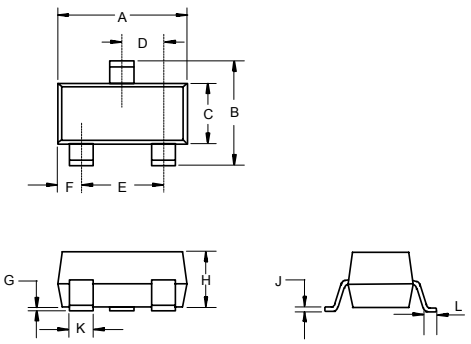
Note: 1. Halogen free "Green” products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure:



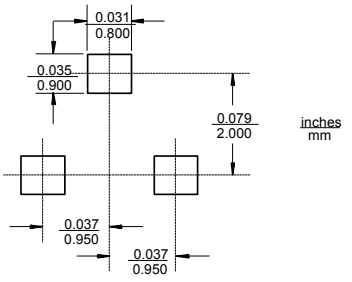
BAS70 BAS70-04 BAS70-05 BAS70-06

SOT-23



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.110	0.120	2.80	3.04	
B	0.083	0.104	2.10	2.64	
C	0.047	0.055	1.20	1.40	
D	0.034	0.041	0.85	1.05	
E	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	
H	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	

Solder Pad Layout



Curve Characteristics

Fig. 1 - Typical Instantaneous Forward Characteristics

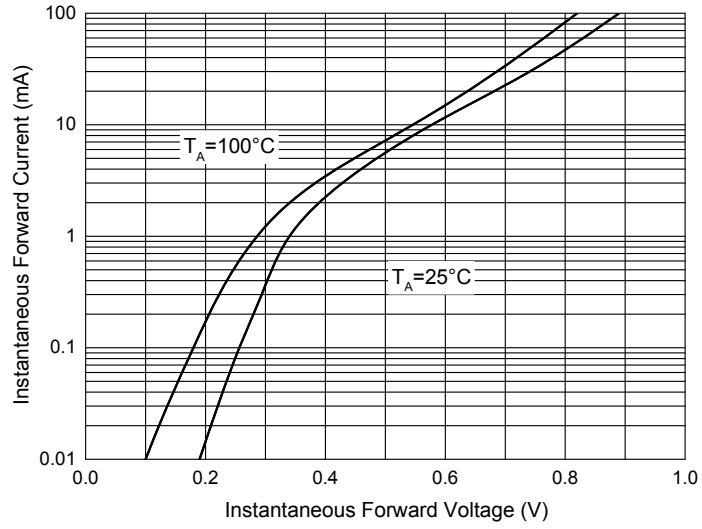


Fig. 2 - Typical Reverse Leakage Characteristics

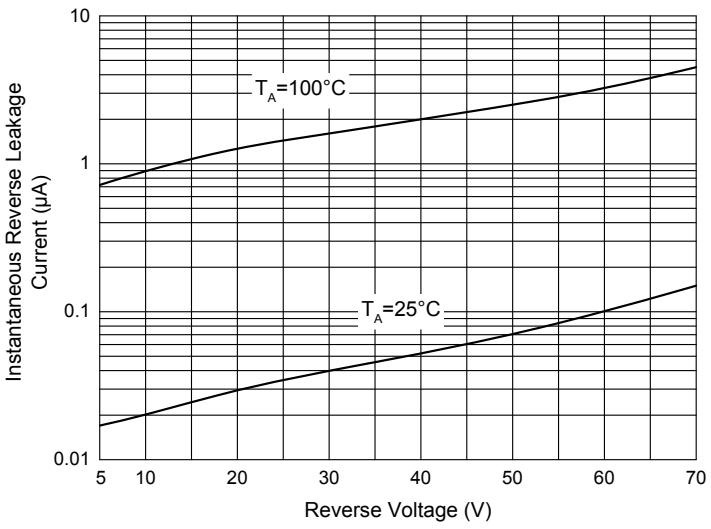
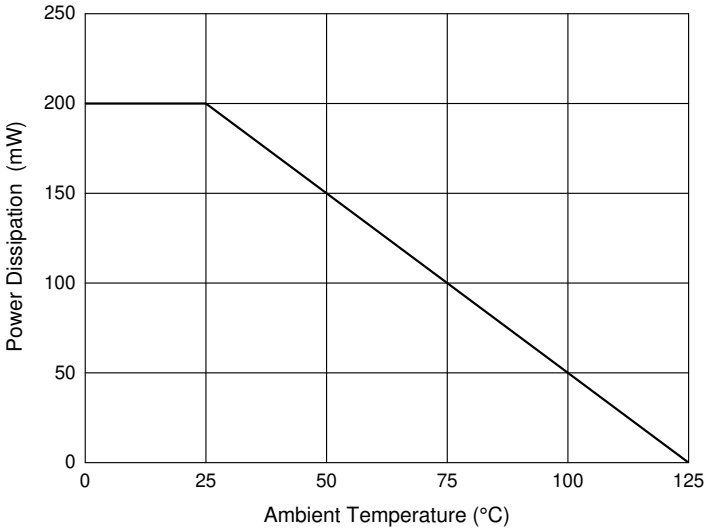


Fig. 3 - Power Derating Curve



Ordering Information

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

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