

TM

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

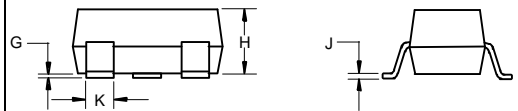
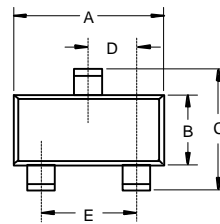
Features

- Ultra-Small Surface Mount Package
- Low turn on Voltage
- Fast Switching
- PN Junction Guard Ring for Transient and ESD Protection
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1

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

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

SOT-523



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	$I_R = 10\mu A$
Total Capacitance	C_T	2pF	Measured at 1.0MHz, $V_R = 0V$
Reverse Recovery Time	t_{rr}	5nS	$I_F = I_R = 10mA$; $I_{rr} = 0.1 * I_R$ $R_L = 100 \Omega$

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	

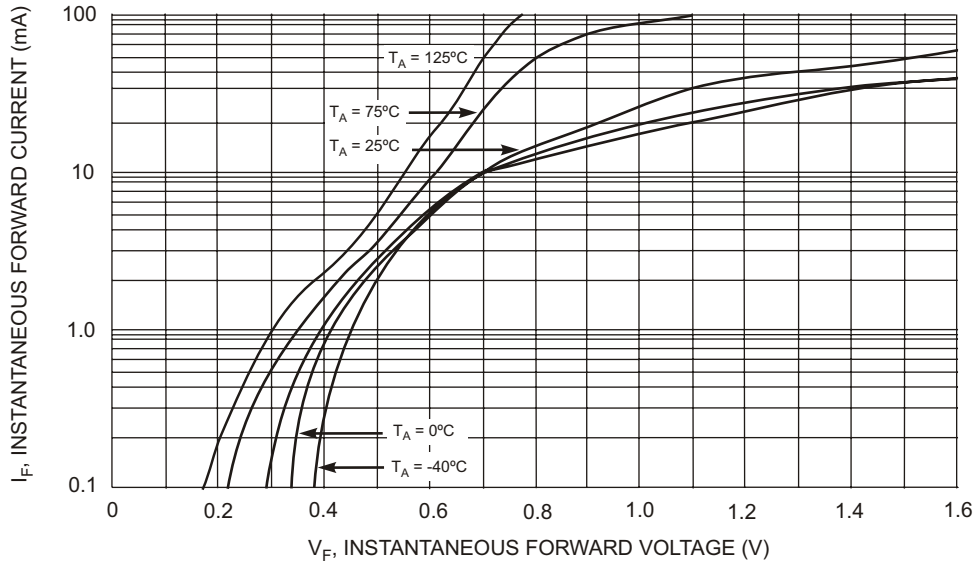


Fig. 1 Typical Forward Characteristics

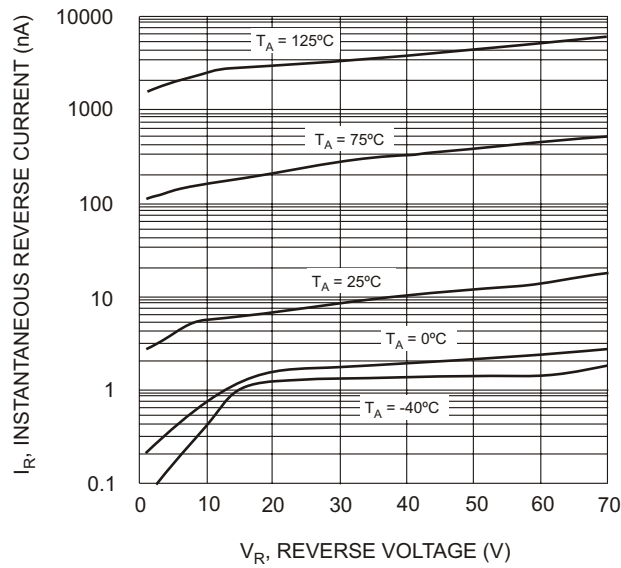


Fig. 2 Typical Reverse Characteristics

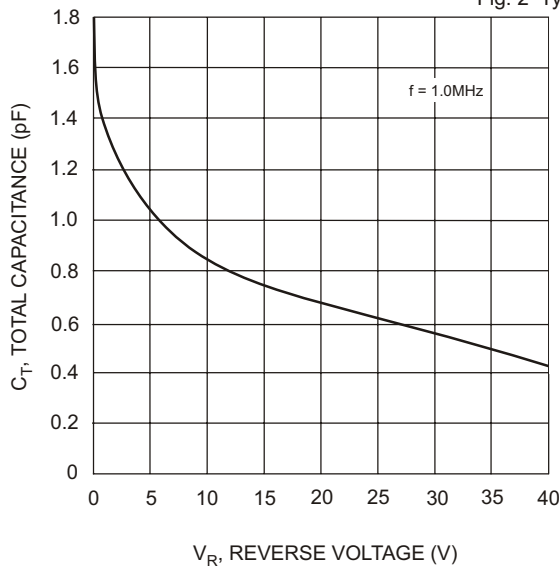


Fig. 3 Typical Capacitance

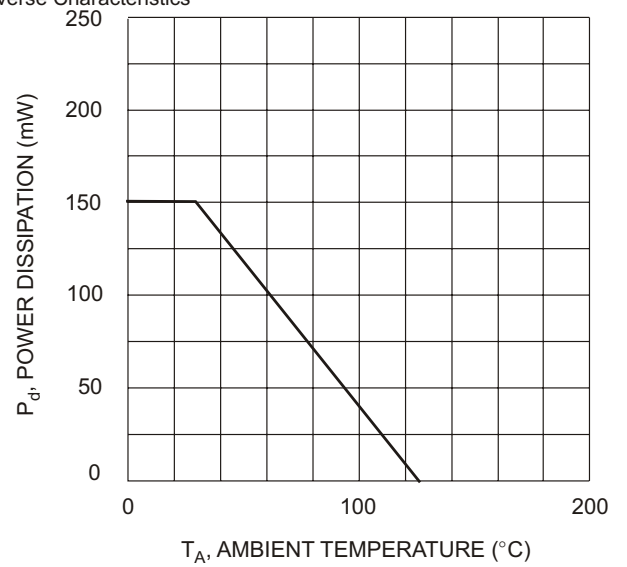


Fig. 4 Power Derating Curve, Total Package

Pin Configuration - Top View

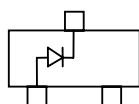


Figure 1

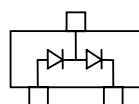


Figure 2

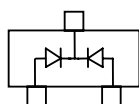


Figure 3

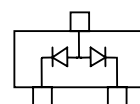


Figure 4

Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel;3Kpcs/Reel

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