

Features

- Ultra-Small Surface Mount Package
- Low turn on Voltage
- Fast Switching
- PN Junction Guard Ring for Transient and ESD Protection
- Epoxy Meets UL 94 V-0 Flammability Rating
 Moisture Sensitivity Level 1
- Halogen Free. "Green" Device (Note 1)

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 667°C/W Junction to Ambient

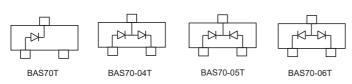
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum DC Blocking Voltage
BAS70T	7C	70V	70V
BAS70-04T	7D	70V	70V
BAS70-05T	7E	70V	70V
BAS70-06T	7F	70V	70V

Electrical Characteristics @ 25°C Unless Otherwise Specified

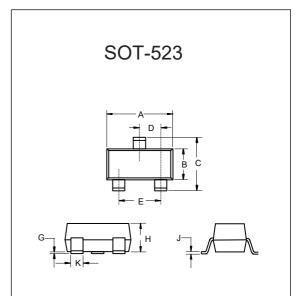
Average Forward Current	I _{F(AV)}	70mA	
Power Dissipation	P _d	150mW	T _A = 25 °C
Peak Forward Surge Current	I _{FSM}	100mA	t<1s
Maximum Forward Voltage	V _F	410mV 1000mV	I _F =1.0mA I _F =15mA
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	0.1μΑ	V _R = 50V
Maximum Reverse Breakdown Voltage	V _(BR)	>70V	I _R =10μA
Maximum Total Capacitance	Ст	2.0pF	Measured at 1.0MHz, V _R =0V
Maximum Reverse Recovery Time	t _{rr}	5.0ns	$I_F=I_R=10\text{mA},$ $I_{rr}=1\text{mA},R_L=100\Omega$

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:

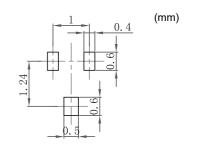


150mW,70V Schottky Barrier Diode



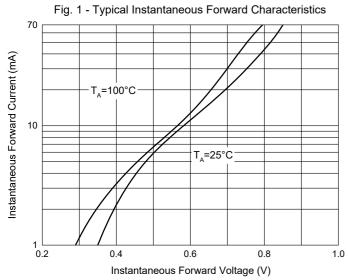
DIMENSIONS						
DIM INCHES		HES	MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.059	0.067	1.50	1.70		
В	0.030	0.033	0.75	0.85		
С	0.057	0.069	1.45	1.75		
D	0.020 Nominal		0.50 Nominal			
Е	0.035	0.043	0.90	1.10		
G	0.000	0.004	0.00	0.10		
Н	0.024	0.031	0.60	0.80		
J	0.004	0.008	0.10	0.20		
K	0.006	0.014	0.15	0.35		

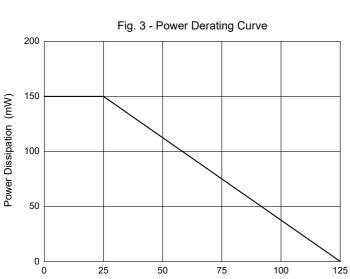
Suggested Solder Pad Layout



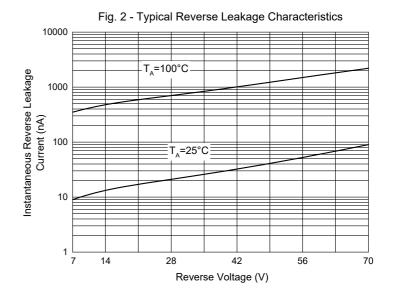


Curve Characteristics





Ambient Temperature (°C)



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Ordering Information

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

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