

Features

- Low Turn-on Voltage
- Fast Switching
- Ultra-Small Surface Mount Package
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P"Suffix Designates

RoHS Compliant. See Ordering Information)

AEC-Q101Qualified

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance(Note2): 500°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
BAS70WTHE3	K73.	70V	49V	70V
BAS70WT-04HE3	K74.	70V	49V	70V
BAS70WT-05HE3	K75.	70V	49V	70V
BAS70WT-06HE3	K76.	70V	49V	70V

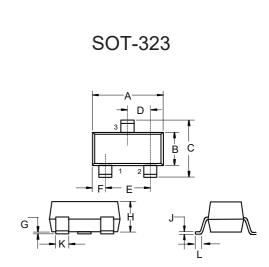
Electrical Characteristics @ 25°C Unless Otherwise Specifie

Average Forward Current	I _{F(AV)}	70mA	T _A = 25 °C	
Non-repetitive Peak Forward surge current	I _{FSM}	100mA	t=8.3ms	
Power Dissipation	P _d	200mW	T _A = 25 °C	
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	0.2μΑ	V _R = 50V	
Minimum Reverse Breakdown Voltage	V _(BR)	70V	I _R =10µA	
Junction Capacitance	CJ	4.0pF	Measured at 1.0MHz, V _R =0V	
Reverse Recovery Time	t _{rr}	5.0ns	$I_F=I_R=10\text{mA},$ $I_{rr}=0.1\text{xIR},$ $R_L=100\Omega$	

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

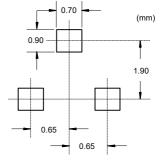
Note: 2. Part mounted on FR-4 board with recommended pad layout.

200mW,70V Schottky Barrier Diode



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	0.071	0.087	1.80	2.20	
В	0.045	0.053	1.15	1.35	
С	0.083	0.096	2.10	2.45	
D	0.026		0.65		TYP.
E	0.047	0.055	1.20	1.40	
F	0.012	0.016	0.30	0.40	
G	0.000	0.004	0.00	0.10	
Н	0.035	0.044	0.90	1.10	
J	0.002	0.010	0.05	0.25	
K	0.006	0.016	0.15	0.40	
L	0.010	0.018	0.26	0.46	

QseecqrcbĀQmjbcpĀN_bĀJ_wmsr





Internal Structure and Marking Code





BAS70WT-04HE3

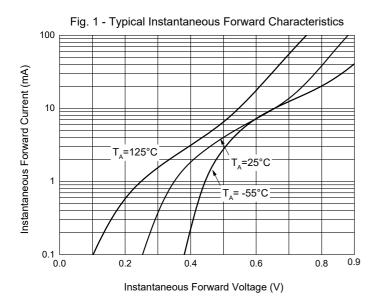


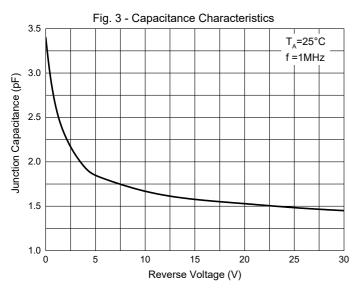






Curve Characteristics





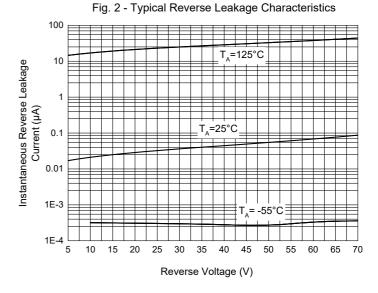
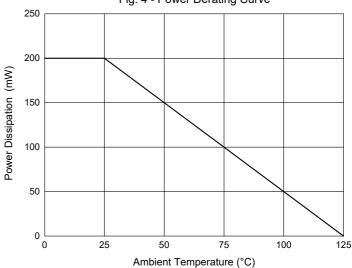


Fig. 4 - Power Derating Curve





Ordering Information

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

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