

Features

- Halogen Free. "Green" Device (Note 1)
- · AEC-Q101 Qualified
- · For Surface Mount Application
- · Moisture Sensitivity Level 1
- · Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 625°C/W Junction to Ambient(Note2)

MCC Part Number	Repetitive Peak Reverse Voltage V _{RRM}	RMS Reverse Voltage V _{R(RMS)}	DC Blocking Voltage V _R
BAV70WTHE3	100V	71V	100V

Working Peak Reverse Voltage	V_{RWM}	100V	
Forward Continuous Current	I _F	150mA	
Non-Repetitive Peak Forward Surge Current	I _{FSM}	1.0A	@ 1.0ms
Power Dissipation	P _D	200mW	T _A =25°C

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.

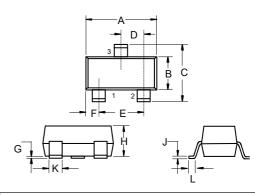
Internal Structure and Marking Code





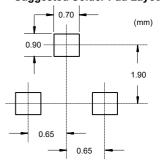
200mW Switching Diode

SOT-323



DIMENSIONS					
DIM	INCHES		MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	NOIL
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	0.0)26	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	

Suggested Solder Pad Layout



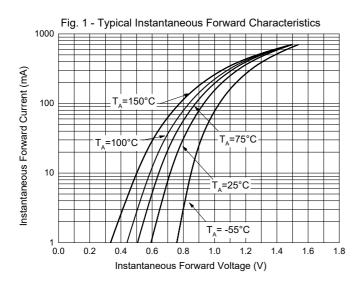


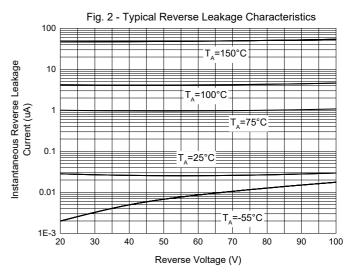
Electrical Characteristics @ 25°C Unless Otherwise Specified

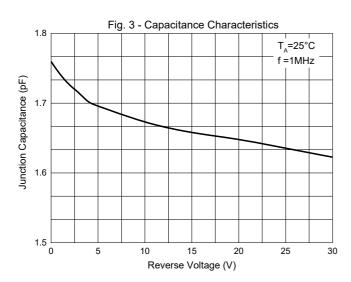
Reverse Breakdown Voltage	V_{BR}	100V	Ι _R =100μΑ
Maximum Forward Voltage	V _F	0.715V 0.855V 1.000V 1.250V	I _{FM} =1.0mA I _{FM} =10.0mA I _{FM} =50.0mA I _{FM} =150.0mA
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	2.0μΑ	V _R =75V
Diode Capacitance	C _d	2.0pF	V _R =0.0V,f=1.0MHz
Reverse Recovery Time	t _{rr}	4.0ns	$I_F=10mA, I_R=10mA$ $I_{rr}=0.1*I_R, R_L=100\Omega$

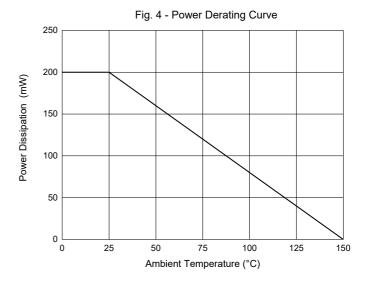


Curve Characteristics











Ordering Information

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

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