

Features

- · High Conductance
- · Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- · For General Purpose Switching Applications
- Halogen Free. "Green" Device (Note 1)
- · 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
- Maximum Thermal Resistance:556°C/W Junction to Ambient

MCC Part Number	Device Marking	Reverse Voltage V _R
BAV74	JA	50V

Average Rectified Output Current	I _o	200mA	
Power Dissipation	P _D	225mW	

Electrical Characteristics @ 25°C Unless Otherwise Specified

Maximum Forward Voltage	V _F	1.00V	I _{FM} =100.0mA	
Reverse voltage leakage current	I _R	0.1μΑ	V _R =50V	
Typical Junction Capacitance	CJ	2.0pF	V _R =0.0V,f=1.0MHz	
Reverse Recovery Time	t _{rr}	4.0ns	$I_F=10\text{mA}, I_R=10\text{mA}$ $I_{rr}=0.1^*I_R, R_L=100\Omega$	

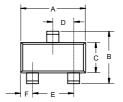
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

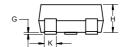
Internal Structure

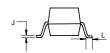


225mW 50 Volt Dual Switching Diode

SOT-23

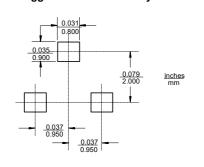






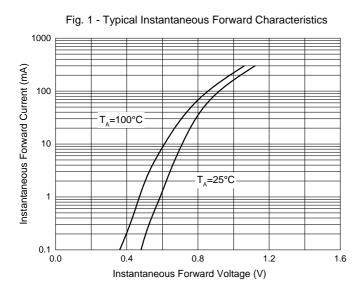
DIMENSIONS					
DIM	INCHES		М	M	NOTE
DIIVI	MIN	MAX	MIN	MAX	NOIE
Α	0.110	0.120	2.80	3.04	
В	0.083	0.104	2.10	2.64	
С	0.047	0.055	1.20	1.40	
D	0.034	0.041	0.85	1.05	
Е	0.067	0.083	1.70	2.10	
F	0.018	0.024	0.45	0.60	
G	0.0004	0.006	0.01	0.15	
Н	0.035	0.043	0.90	1.10	
J	0.003	0.007	0.08	0.18	
K	0.014	0.020	0.35	0.51	
L	0.007	0.020	0.20	0.50	

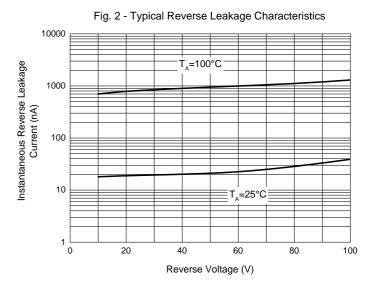
Suggested Solder Pad Layout

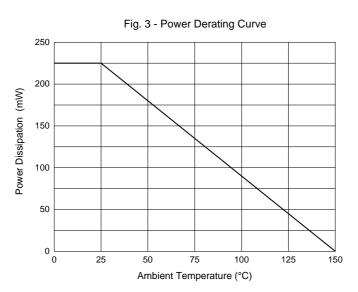




Curve Characteristics









Ordering Information

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

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