

Features

- Halogen Free. "Green" Device (Note 1)
- AEC-Q101 Qualified
- · Low Current Leakage
- · Small Outline Surface Mount Package
- · 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

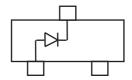
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 357°C/W Junction to Ambient

MCC Part Number	Device Marking		
BAS16HE3	A6		

Parameter	Symbol	Value
Reverse Voltage	V_R	100V
Peak Reverse Voltage	V_{RM}	100V
Working Peak Reverse Voltage	V_{RWM}	100V
RMS Reverse Voltage	V _{R(RMS)}	70V
Peak Forward Current	I _F	215mA
Peak Forward Surge Current (t=1s)	ı	1A
(t=0.1ms)	I _{FSM}	4A
Power Dissipation	P _{TOT}	350mW

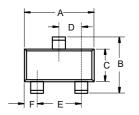
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

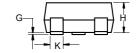
Pin Configuration Top View

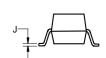


350mW 100Volt Switching Diode

SOT-23

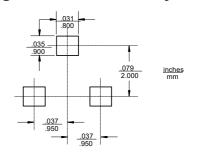






DIMENSIONS					
DIM INCHES		HES	MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.110	0.120	2.80	3.04	
В	0.083	0.104	2.10	2.64	
С	0.047	0.055	1.20	1.40	
D	0.035	0.041	0.89	1.03	
E	0.070	0.081	1.78	2.05	
F	0.018	0.024	0.45	0.60	
G	0.0005	0.0039	0.01	0.10	
Н	0.035	0.044	0.89	1.12	
J	0.003	0.007	0.085	0.180	
K	0.015	0.020	0.37	0.51	

Suggested Solder Pad Layout





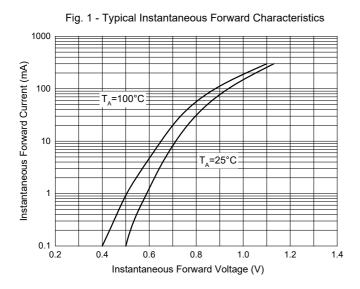
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

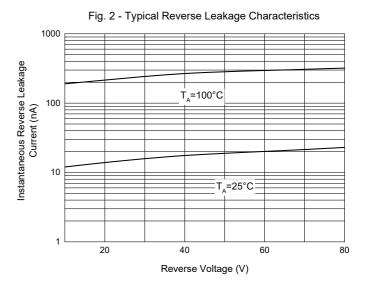
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Maximum		I _{FM} =1mA			0.715	V
	V	I _{FM} =10mA			0.855	V
Instantaneous Forward Voltage	· ·	I _{FM} =50mA			1	V
		I _{FM} =100mA			1.25	V
Maximum DC Reverse Current	V _R =75V, T _J =25°C			1	μA	
	V _R =75V, T _J =150°C			50	μΑ	
Junction Capacitance	Сл	$V_R = 0V$, $f = 1MHz$		2		pF
Reverse Recovery Time	t _{rr}	$I_F=10mA,$ $V_R=6.0V,R_L=100\Omega$			4	ns

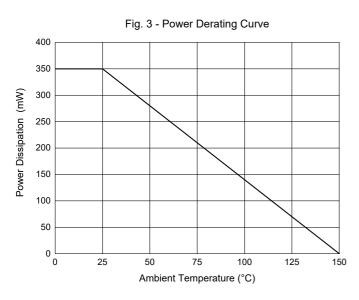
^{*} Pulse Test: Pulse Width 300 µsec, Duty Cycle 2%



Curve Characteristics









Ordering Information

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

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