

Features

- Low Current Leakage
- Low Cost
- Small Outline Surface Mount Package
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

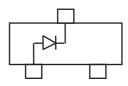
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 357°C/W Junction to Ambient

MCC Part Number	Device Marking	
BAS16	A6	

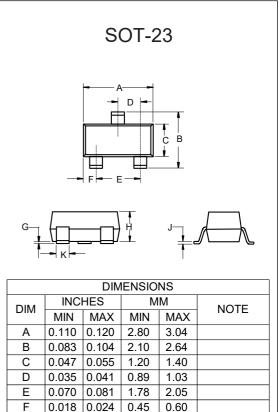
Parameter	Symbol	Value	
Reverse Voltage	V _R	100V	
Peak Reverse Voltage	V_{RM}	100V	
Working Peak Reverse Voltage	V _{RWM}	100V	
RMS Reverse Voltage	V _{R(RMS)}	70V	
Peak Forward Current	I _F	215mA	
Peak Forward Surge Current (t=1s)	-	1A	
(t=0.1ms)	I _{FSM}	4A	
Power Dissipation	P _{TOT}	350mW	

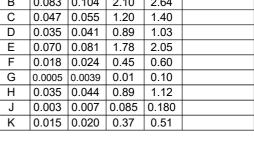
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Pin Configuration Top View

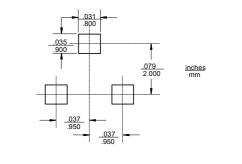


350mW 100Volt Switching Diode





Suggested Solder Pad Layout





Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Maximum Instantaneous V _F Forward Voltage	I _{FM} =1mA			0.715	V	
	I _{FM} =10mA			0.855	V	
	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	μA	
Junction Capacitance	CJ	V _R = 0V, f = 1MHz		2		pF
Reverse Recovery Time	t _{rr}	I _F =10mA, V _R = 6.0V,R _L =100Ω			4	ns

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



Curve Characteristics

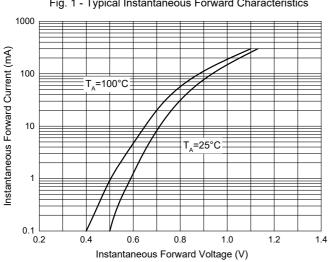
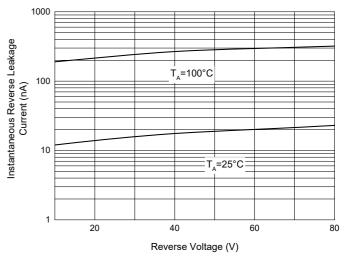
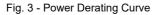
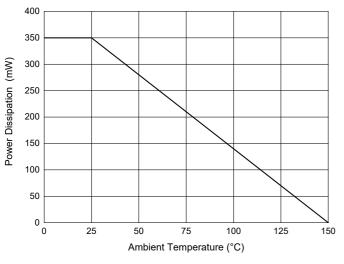


Fig. 1 - Typical Instantaneous Forward Characteristics

Fig. 2 - Typical Reverse Leakage Characteristics









Ordering Information

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

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