

Features

- Low Current Leakage
- Low Cost
- Small Outline Surface Mount Package
- 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
- Thermal Resistance:357°C/W Junction to Ambient

MCC Part Number		Device Marking			Reverse Voltage V _R		
BAW56	BAW56		A1		100V		
Forward Continuous Current	I _F		250mA				
Peak Forward Surge Current	I _{FSM}		4A 1A		t=1us,Non-Repetitive t=1s,Non-Repetitive		
Power Dissipation	P _{TOT}		350mW				

Electrical Characteristics @ 25°C Unless Otherwise Specified

Maximum Forward Voltage	V _F	0.855V	I _{FM} =10mA,T _J =25°C (Note 2)
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	0.5μA 50μA	V _R =100V,T _J =25°C V _R =75V,T _J =150°C
Typical Junction Capacitance	CJ	2.0pF	V _R =0.0V,f=1.0MHz
Reverse Recovery Time	t _{rr}	4.0ns	I _F =10mA, V _R =0V,R _L =50Ω

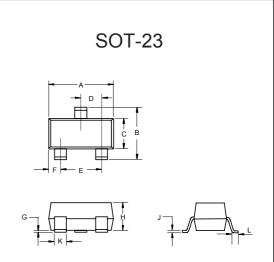
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

2. Pulse test: Pulse width 300 µsec, Duty cycle 2%

Internal Structure

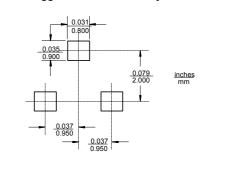


350mW 100Volt Dual Switching Diode



	DIMENSIONS					
DIM	INCHES		MM		NOTE	
Divi	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	0.034	0.041	0.85	1.05		
E	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

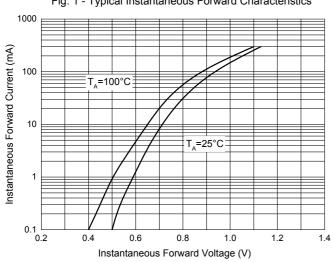


Fig. 1 - Typical Instantaneous Forward Characteristics

Fig. 2 - Typical Reverse Leakage Characteristics

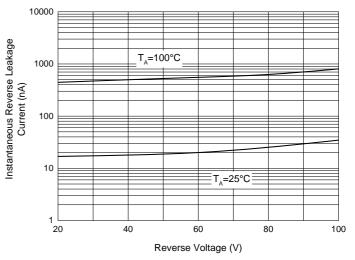
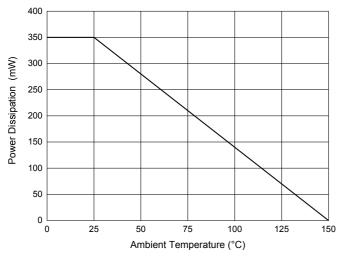


Fig. 3 - Power Derating Curve





Ordering Information

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

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