

# 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 <sub>R</sub>	
BAW56			A1		75V	
Forward Continuous Current	I <sub>F</sub>		250mA			
Peak Forward Surge Current	I <sub>FSM</sub>		1000mA		t=1s,Non-Repetitive	
Power Dissipation	P <sub>TOT</sub>		350mW			

# Electrical Characteristics @ 25°C Unless Otherwise Specified

Maximum Forward Voltage	V <sub>F</sub>	0.855V	I <sub>FM</sub> =10mA,T <sub>J</sub> =25°C (Note 2)
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	2.5μΑ 50μΑ	V <sub>R</sub> =75V,T <sub>J</sub> =25°C V <sub>R</sub> =75V,T <sub>J</sub> =150°C
Typical Junction Capacitance	CJ	2.0pF	V <sub>R</sub> =0.0V,f=1.0MHz
Reverse Recovery Time	t <sub>rr</sub>	4.0ns	I <sub>F</sub> =10mA, V <sub>R</sub> =0V,R <sub>L</sub> =50Ω

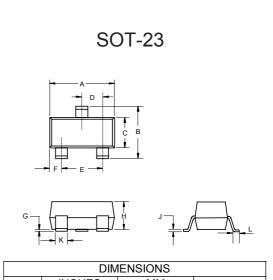
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

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

#### Internal Structure

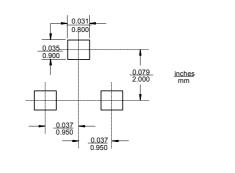


# 350mW 75Volt **Dual Switching Diode**



	DIMENSIONS					
DIM	INCHES		MM		NOTE	
DIN	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**

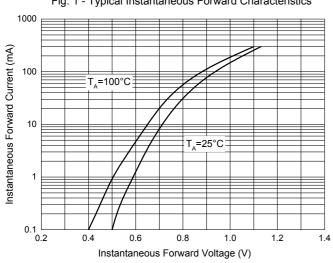
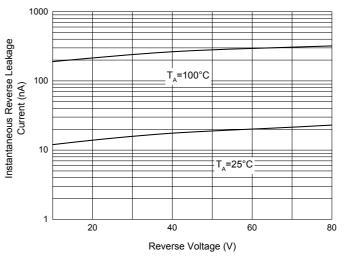
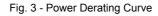
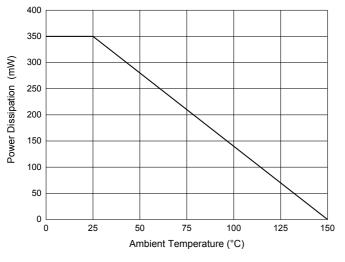


Fig. 1 - Typical Instantaneous Forward Characteristics

Fig. 2 - Typical Reverse Leakage Characteristics









# **Ordering Information**

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

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