

## **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		Reverse Voltage V <sub>R</sub>	
BAW56HE3			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> =100mA,T <sub>J</sub> =25°C (Note 2)
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	2.5μA 50μA	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	С	2.0pF	V <sub>R</sub> =0.0V,f=1.0MHz
Reverse Recovery Time	t <sub>rr</sub>	4.0ns	$I_F$ =10mA, $V_R$ =0V, $R_L$ =50 $\Omega$

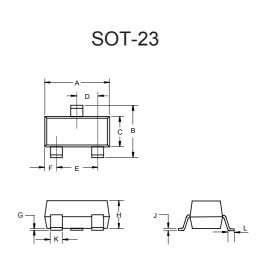
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

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

# **Internal Structure**

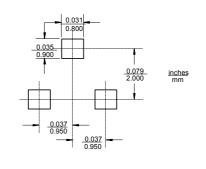


# 350mW 75Volt Dual Switching Diode



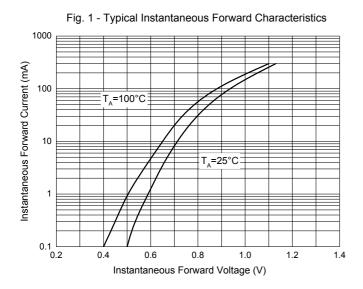
DIMENSIONS						
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX	INOTE	
Α	0.110	0.120	2.80	3.04		
В	0.083	0.104	2.10	2.64		
С	0.047	0.055	1.20	1.40		
D	0.034	0.041	0.85	1.05		
Е	0.067	0.083	1.70	2.10		
F	0.018	0.024	0.45	0.60		
G	0.0004	0.006	0.01	0.15		
Н	0.035	0.043	0.90	1.10		
J	0.003	0.007	0.08	0.18		
K	0.014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

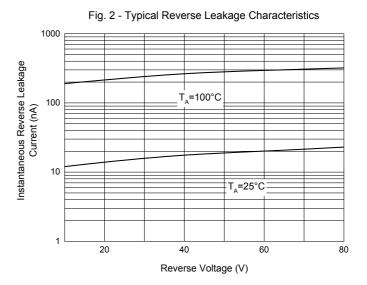
# Suggested Solder Pad Layout

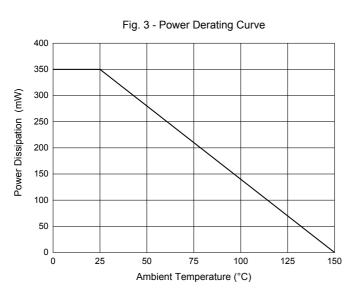




# **Curve Characteristics**









# **Ordering Information**

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

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