

## **Features**

- · For Surface Mount Application
- 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:625°C/W Junction to Ambient

MCC Part Number	Device Marking
BAW56WT	KJC

Forward Continuous Current	I <sub>F</sub>	150mA	
Non-Repetitive Peak Forward Surge Current	I <sub>FSM</sub>	2.0A 1.0A	@1µs @1s
Power Dissipation	P <sub>D</sub>	200mW	T <sub>A</sub> =25°C

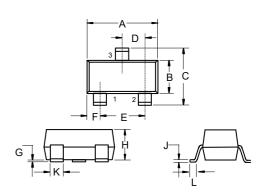
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

## **Internal Structure**



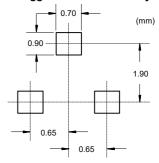
# Dual Series Switching Diode





DIMENSIONS					
DIM INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.071	0.087	1.80	2.20	
В	0.045	0.053	1.15	1.35	
С	0.083	0.096	2.10	2.45	
D	0.026		0.65		TYP.
E	0.047	0.055	1.20	1.40	
F	0.012	0.016	0.30	0.40	
G	0.000	0.004	0.00	0.10	
Н	0.035	0.044	0.90	1.10	
J	0.002	0.010	0.05	0.25	
K	0.006	0.016	0.15	0.40	
L	0.010	0.018	0.26	0.46	

## Suggested Solder Pad Layout



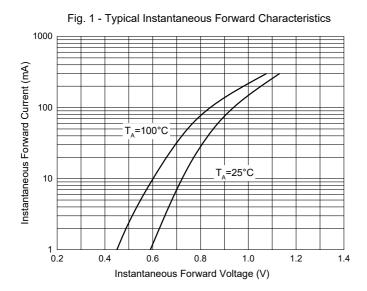


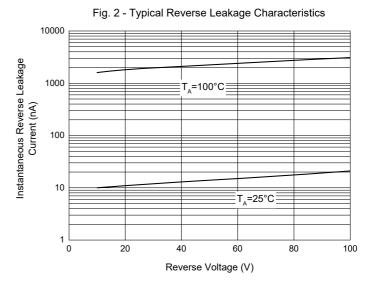
# Electrical Characteristics @ 25°C Unless Otherwise Specified

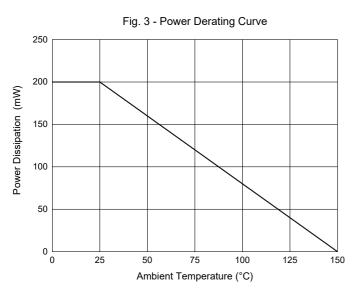
Reverse Breakdown Voltage	V <sub>R</sub>	75V	I <sub>R</sub> =100.0μA
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	0.715V 0.855V 1.000V 1.250V	I <sub>FM</sub> =1.0mA I <sub>FM</sub> =10.0mA I <sub>FM</sub> =50.0mA I <sub>FM</sub> =150.0mA
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	2.5μΑ	V <sub>R</sub> =75V
Diode Capacitance	C <sub>D</sub>	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, I <sub>R</sub> =10mA I <sub>rr</sub> =0.1*I <sub>R</sub>



## **Curve Characteristics**









## **Ordering Information**

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

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