

## Features

- Integrated Diffused Guard Ring
- Low Forward Voltage
- For low-Loss, Fast-Recovery, Meter Protection, Bias Isolation and Clamping Applications
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 1)
- Moisture Sensitivity Level 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: 500°C/W Junction to Ambient

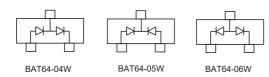
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum DC Blocking Voltage
BAT64-04W	64S	40V	40V
BAT64-05W	65S	40V	40V
BAT64-06W	66S	40V	40V

### Electrical Characteristics @ 25°C Unless Otherwise Specified

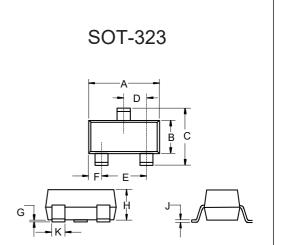
	-		
Average Forward Current	I <sub>F(AV)</sub>	250mA	T <sub>A</sub> = 25 °C
Peak Forward Surge Current	I <sub>FSM</sub>	800mA	tp=10ms
Power Dissipation	P <sub>d</sub>	250mW	
Maximum Forward Voltage	V <sub>F</sub>	350mV 430mV 520mV 750mV	I <sub>F</sub> =1.0mA I <sub>F</sub> =10mA I <sub>F</sub> =30mA I <sub>F</sub> =100mA
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	2.0µA	V <sub>R</sub> = 30V
Maximum Junction Capacitance	C <sub>T</sub>	30pF	Measured at 1.0MHz, V <sub>R</sub> =5.0V
Maximum Reverse Recovery Time	t <sub>rr</sub>	5.0ns	I <sub>F</sub> =10mA,I <sub>R</sub> =10mA, I <sub>rr</sub> =1mA,R <sub>L</sub> =100Ω

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:**

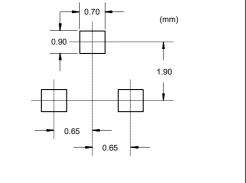






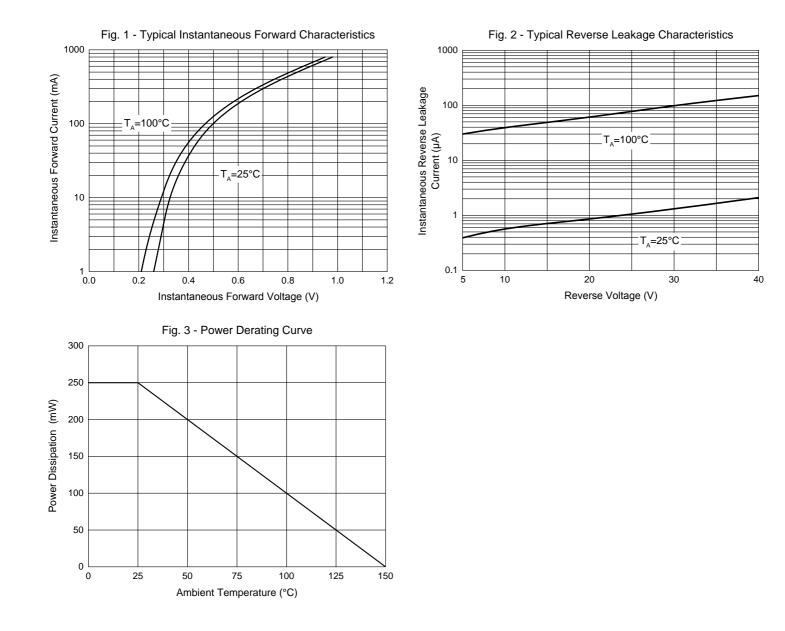
	DIMENSIONS						
DIM	INCHES		MM		NOTE		
	MIN	MAX	MIN	MAX	NOTE		
А	0.071	0.087	1.80	2.20			
В	0.045	0.053	1.15	1.35			
С	0.083	0.096	2.10	2.45			
D	0.026	Nominal	0.65 N	lominal			
E	0.047	0.055	1.20	1.40			
F	0.012	0.016	0.30	0.40			
G	0.000	0.004	0.00	0.10			
Н	0.035	0.044	0.90	1.10			
J	0.002	0.010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

### Suggested Solder Pad Layout





# **Curve Characteristics**





## **Ordering Information**

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

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