

# **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 Available Upon Request By Adding Suffix "-HF"
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

## **Maximum Ratings**

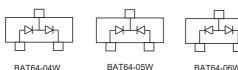
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 500°C/W Junction to Ambient

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	$I_F$ =10mA, $I_R$ =10mA, $I_{rr}$ =1mA, $R_L$ =100 $\Omega$

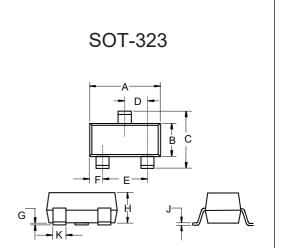
### **Internal Structure:**



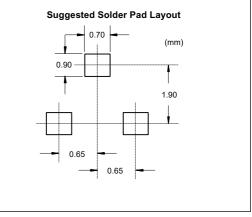


BAT64-06W



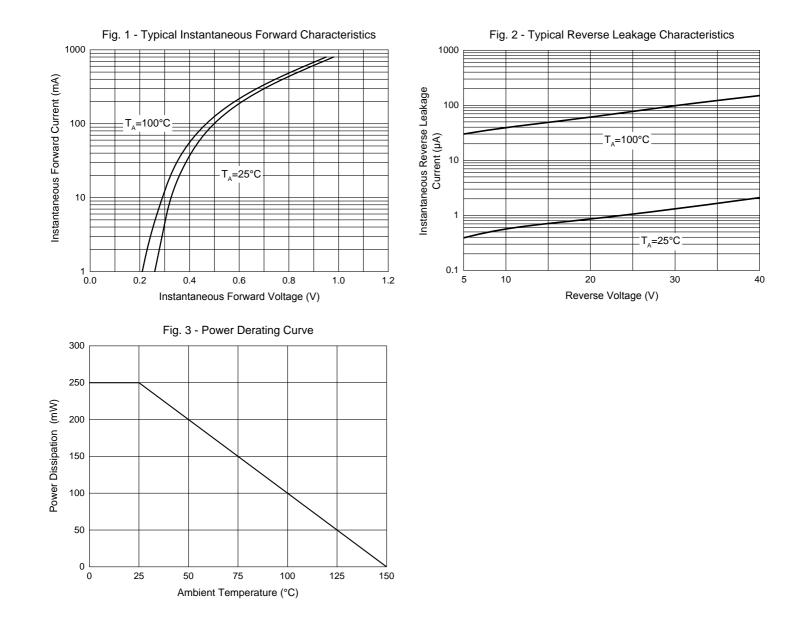


DIMENSIONS								
DIM	INCHES		MM		NOTE			
	MIN	MAX	MIN	MAX	NOTE			
А	0.071	0.087	1.80	2.20				
В	0.045	0.053	1.15	1.35				
С	0.083	0.096	2.10	2.45				
D	0.026 Nominal 0.65 Nomin			lominal				
E	0.047	0.055	1.20	1.40				
F	0.012	0.016	0.30	0.40				
G	0.000	0.004	0.00	0.10				
Н	0.035	0.044	0.90	1.10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





# **Curve Characteristics**





# **Ordering Information**

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

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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