

## 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

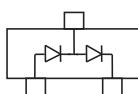
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 500°C/W Junction to Ambient

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

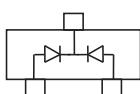
## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	250mA	$T_A = 25^\circ C$
Peak Forward Surge Current	$I_{FSM}$	800mA	$t_p=10ms$
Power Dissipation	$P_d$	250mW	
Maximum Forward Voltage	$V_F$	350mV 430mV 520mV 750mV	$I_F=1.0mA$ $I_F=10mA$ $I_F=30mA$ $I_F=100mA$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	2.0 $\mu$ A	$V_R = 30V$
Maximum Junction Capacitance	$C_T$	30pF	Measured at 1.0MHz, $V_R=5.0V$
Maximum Reverse Recovery Time	$t_{rr}$	5.0ns	$I_F=10mA, I_R=10mA, I_{rr}=1mA, R_L=100\Omega$

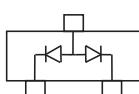
## Internal Structure:



BAT64-04W



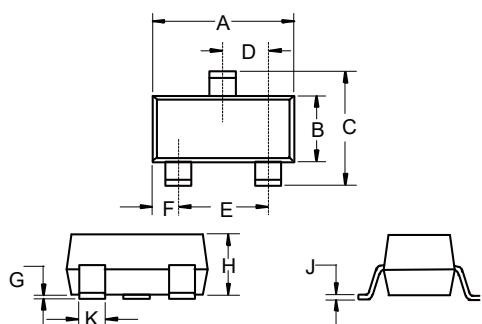
BAT64-05W



BAT64-06W

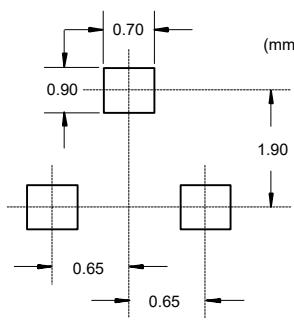
# 250mW, 40V Schottky Barrier Diode

SOT-323

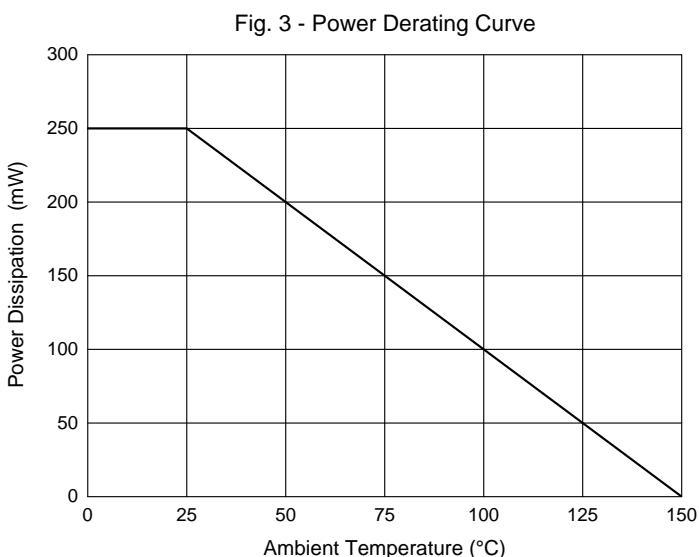
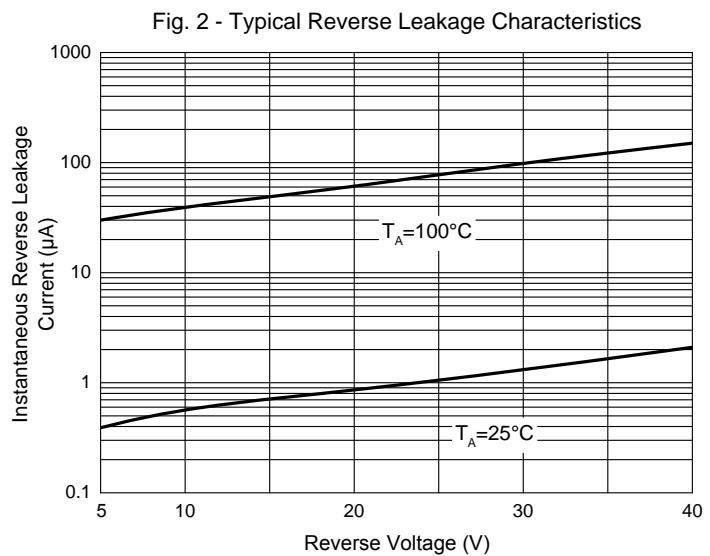
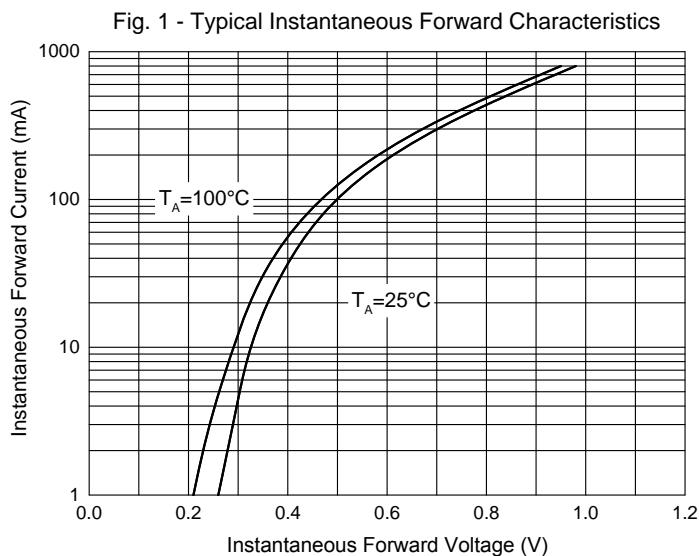


DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.071	0.087	1.80	2.20	
B	0.045	0.053	1.15	1.35	
C	0.083	0.096	2.10	2.45	
D	0.026	Nominal	0.65	Nominal	
E	0.047	0.055	1.20	1.40	
F	0.012	0.016	0.30	0.40	
G	0.000	0.004	0.00	0.10	
H	0.035	0.044	0.90	1.10	
J	0.002	0.010	0.05	0.25	
K	0.006	0.016	0.15	0.40	

Suggested Solder Pad Layout



## Curve Characteristics



## Ordering Information

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

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

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