

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
BAT64-04	64S	40V	40V
BAT64-05	65S	40V	40V
BAT64-06	66S	40V	40V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	250mA	
Peak Forward Surge Current	I _{FSM}	800mA	
Power Dissipation	P _d	250mW	T _A = 25 °C
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	2μΑ	V _R = 25V
Typital Junction Capacitance	Ст	6.0pF	Measured at 1.0MHz, V _R =5.0V

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:





BAT64-05

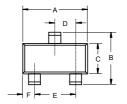


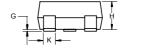
BAT64-04

BAT64-06

250mW,40V Small Signal Schottky Diode

SOT-23

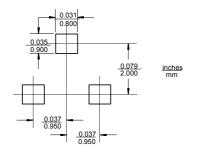






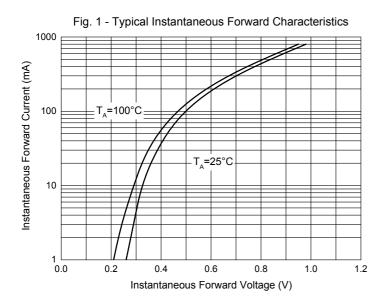
DIMENSIONS						
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX	NOTE	
Α	0.110	0.120	2.80	3.04		
В	0.083	0.104	2.10	2.64		
С	0.047	0.055	1.20	1.40		
D	0.034	0.041	0.85	1.05		
E	0.067	0.083	1.70	2.10		
F	0.018	0.024	0.45	0.60		
G	0.0004	0.006	0.01	0.15		
Н	0.035	0.043	0.90	1.10		
J	0.003	0.007	0.08	0.18		
K	0.012	0.020	0.30	0.51		
L	0.007	0.020	0.20	0.50		

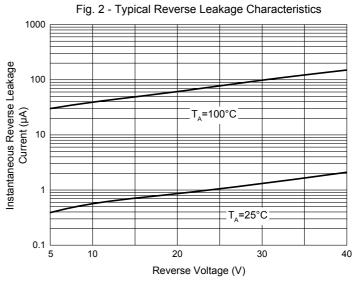
Suggested Solder Pad Layout

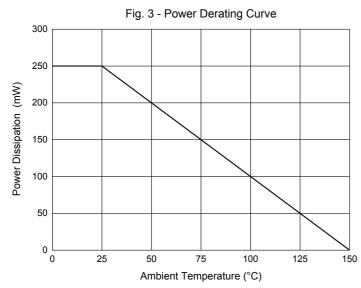




Curve Characteristics









Ordering Information

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

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