

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)
- AEC-Q101 Qualified

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance(Note2): 500°C/W Junction to Ambient

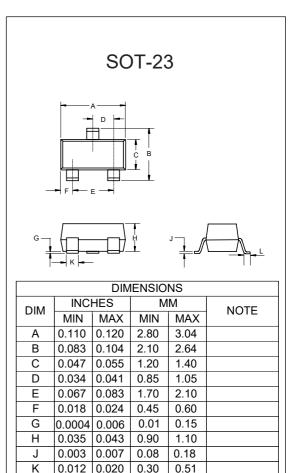
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
BAT64-04HE3	64S	40V	28V	40V
BAT64-05HE3	65S	40V	28V	40V
BAT64-06HE3	66S	40V	28V	40V

Electrical Characteristics @ 25°C Unless Otherwise Specifie

	. –		-
Average Forward Current	I _{F(AV)}	225mA	
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
Minimum Reverse Breakdown Voltage	V _(BR)	40V	Ι _R =100μΑ
Typital Junction Capacitance	CJ	6.0pF	Measured at 1.0MHz, V _R =5.0V
Typital Reverse Recovery Time	t _{rr}	6.0ns	$I_F=I_R=10mA$,Irr=0.1x I_R , $R_L=100\Omega$

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds. 2.Part mounted on FR-4 board with recommended pad layout.



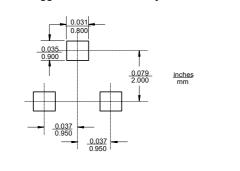


Suggested Solder Pad Layout

0.50

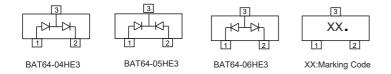
0.007 0.020 0.20

L

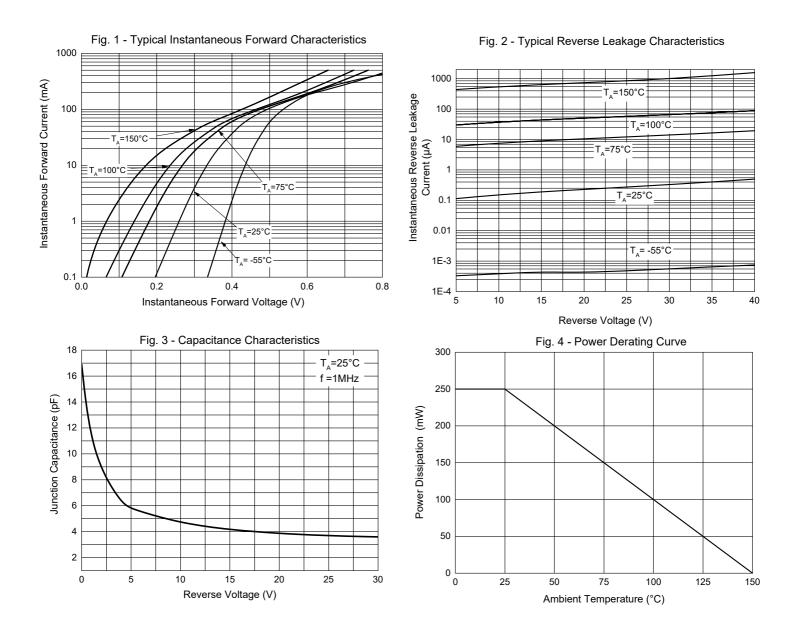




Internal Structure and Marking Code



Curve Characteristics





Ordering Information

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

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. *Micro Commercial Components Corp*. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold *Micro Commercial Components Corp*. and all the companies whose products are represented on our website, harmless against all damages. *Micro Commercial Components Corp*. products are sold subject to the general terms and conditions of commercial sale, as published at

https://www.mccsemi.com/Home/TermsAndConditions.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources**. MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.