

Features

- Halogen Free. "Green" Device (Note 1)
- AEC-Q101 Qualified
- Low Forward Voltage
- Epoxy Meets UL 94 V-0 Flammability Rating
- 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 +125°C
- Storage Temperature Range: -55°C to +150°C
 Thermal Resistance: 500°C/W Junction to Ambient(Note 2)

MCC Part Number	Repetitive Peak Reverse Voltage V _{RRM}	RMS Reverse Voltage V _{R(RMS)}	DC Blocking Voltage V _R		
BAT54WTHE3	30V	21V	30V		
BAT54AWTHE3	30V	21V	30V		
BAT54CWTHE3	30V	21V	30V		
BAT54SWTHE3	30V	21V	30V		

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	200mA	T _A = 25 °C
Peak Forward Surge Current	I _{FSM}	600mA	t=8.3ms
Power Dissipation	P_d	200mW	T _A = 25 °C

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Note 2: Mounted on FR-4 board with recommended pad layout.

Internal Structure and Marking Code









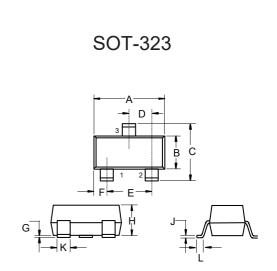




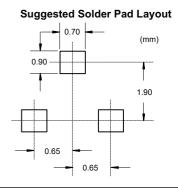




200mW,30V **Schottky Barrier** Diode



DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOIL	
Α	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		0.65		TYP.	
Е	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		
L	0.010	0.018	0.26	0.46		





BAT54WTHE3,BAT54AWTHE3,BAT54CWTHE3,BAT54SWTHE3

Electrical Characteristics @ 25°C Unless Otherwise Specified

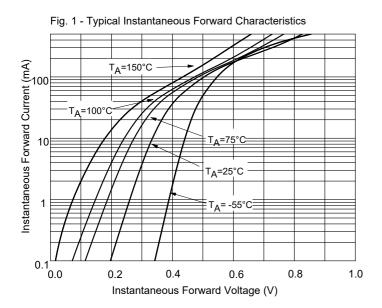
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units	
Reverse Breakdown Voltage	V _{BR}	I _R =100μA	30			V	
		I _F =0.1mA			0.24	V	
		I _F =1mA			0.32	V	
Forward Voltage	V _F	V _F	I _F =10mA			0.40	V
		I _F =30mA			0.50	V	
		I _F =100mA			0.80	V	
Reverse Current	I _R	V _R =25V			2.00	uA	
Junction Capacitance	C _J	V _R = 1V, f = 1MHz			10	pF	
Reverse Recovery Time	t _{rr}	$I_F=I_R=10$ mA, $I_{rr}=0.1\times I_R, R_L=100\Omega$			5	ns	

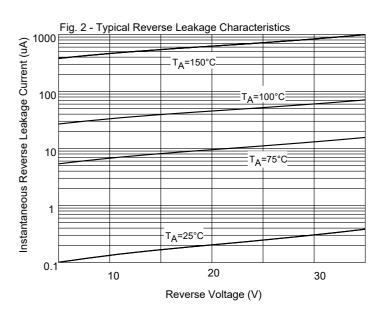
Pulse Test: Pulse Width 300 µsec, Duty Cycle 2%

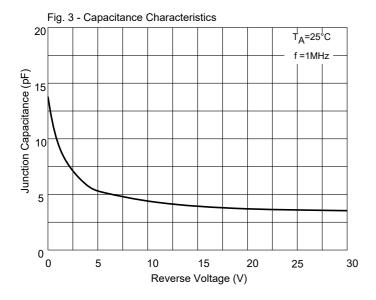
Rev.4-1-05242024 2/4 MCCSEMI.COM

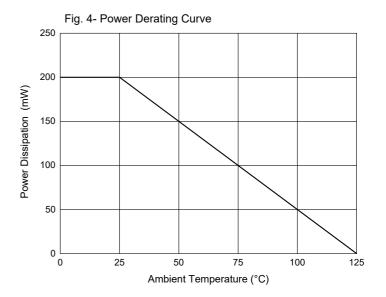


Curve Characteristics











BAT54WTHE3,BAT54AWTHE3,BAT54CWTHE3,BAT54SWTHE3

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.

Rev.4-1-05242024 4/4 MCCSEMI.COM

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Micro Commercial Components (MCC):

BAT54AWTHE3-TP BAT54CWTHE3-TP BAT54SWTHE3-TP BAT54WTHE3-TP