

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933

Phone: (818) 701-4933 Fax: (818) 701-4939

BAT54 THRU BAT54S

Features

- Low Forward Voltage
- Surface Mount device
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

MCC Catalog Number	Device Marking		Type	Pin
	1	2	.,,,,	Configuration See page 3
BAT54	KL1	L4	Single	Figure 1
BAT54A	KL2	L42	Dual	Figure 2
BAT54C	KL3	L43	Dual	Figure 3
BAT54S	KL4	L44	Dual	Figure 4

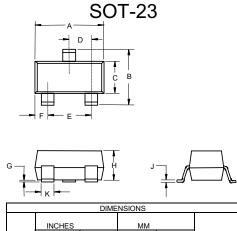
Maximum Ratings

Continuos Reverse Voltage		30V
Forward ContinuousCurrent		200mA
Non-Repetitive Peak Forward Current t<1s	I _{FSM}	0.6A
Total Power Dissipation @ T _A = 25°C	P_{D}	200mW
Storage Temperature Range	T_{stg}	-55°C to 150°C
Operating Junction Temperature Range	Ti	-55°C to 125°C
Soldering temperature during 10s		260°C

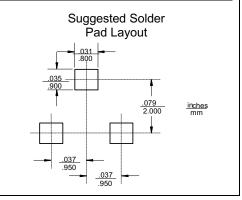
Electrical Characteristics @ 25 °C Unless Otherwise Specified

			noi mico opocinica
Characteristics	Symbol	Max.	Notes
Forward Voltage at			
$I_{F} = 0.1 \text{mA}$		240mV	
$I_F = 1mA$	V_{F}	320mV	
$I_F = 10mA$		400mV	
$I_F = 30mA$		500mV	
$I_{F} = 100 \text{mA}$		1000mV	
Reverse Current	I_R	2.0 uA	$V_{R} = 25V$
Capacitance	C. ₁	10pF	Measured at
Сараспансе	C _J	Ιορι	1.0MHz, V _R =1.0V
Reverse Recovery	t _{rr}	5nS	$I_F=I_R=10$ mA;
Time			$I_{(REC)} = 1mA$
Thermal Resistance,	$R_{\theta JA}$	500°C/W	
Junction to Ambient			

200mWatt, 30Volt Schottky Barrier Diode



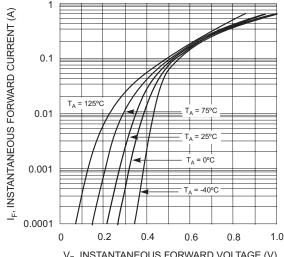
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.110	.120	2.80	3.04	
В	.083	.098	2.10	2.64	
С	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
E	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
G	.0005	.0039	.013	.100	
Η	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	



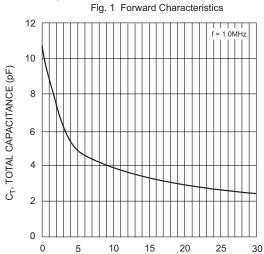
BAT54 thru BAT54S



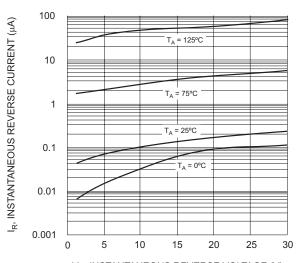
Micro Commercial Components



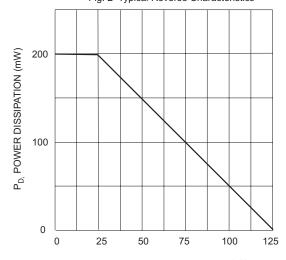
V_F, INSTANTANEOUS FORWARD VOLTAGE (V)



 $\label{eq:VR} {\rm V_R, REVERSE\ VOLTAGE\ (V)}$ Fig. 3 Typical Capacitance vs. Reverse Voltage



V_R, INSTANTANEOUS REVERSE VOLTAGE (V) Fig. 2 Typical Reverse Characteristics



T_A, AMBIENT TEMPERATURE (°C) Fig. 4 Power Derating Curve

Pin Configuration - Top View



BAT54



BAT54A



Figure 3



Figure 4

BAT54C

BAT54S



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.

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.