

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth

CA 91311

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

BAT54 THRU BAT54S

Features

- Low Forward Voltage
- Surface Mount device
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

MCC Catalog Number	Device Marking				Type	Pin
	1	2	3	4	1,700	Configuration See page 3
BAT54	KL1	L4	L4P	LV3	Single	Figure 1
BAT54A	KL2	L42		B6	Dual	Figure 2
BAT54C	KL3	L43			Dual	Figure 3
BAT54S	KL4	L44		LD3	Dual	Figure 4

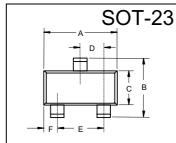
Maximum Ratings

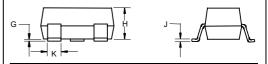
Continuos Reverse Voltage	V_R	30V
Forward ContinuousCurrent	lF	200mA
Non-Repetitive Peak Forward Current t<1s	I _{FSM}	0.6A
Total Power Dissipation @ T _A = 25°C	P_{D}	200mW
Storage Temperature Range	T_{stg}	-55°C to 150°C
Operating Junction Temperature Range	Tj	-55°C to 125°C
Soldering temperature during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

Electrical Characteristics @ 25 $^{\circ}$ C Unless Otherwise Specified

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 _J	10pF	Measured at	
'	J		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	,			

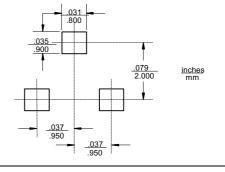
200mWatt, 30Volt **Schottky Barrier Diode**





DIMENSIONS						
	INCHES		MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.110	.120	2.80	3.04		
В	.083	.098	2.10	2.64		
O	.047	.055	1.20	1.40		
D	.035	.041	.89	1.03		
Е	.070	.081	1.78	2.05		
F	.018	.024	.45	.60		
Ð	.0005	.0039	.013	.100		
I	.035	.044	.89	1.12		
٦	.003	.007	.085	.180		
K	.015	.020	.37	.51		

Suggested Solder Pad Layout



BAT54 thru BAT54S



Micro Commercial Components

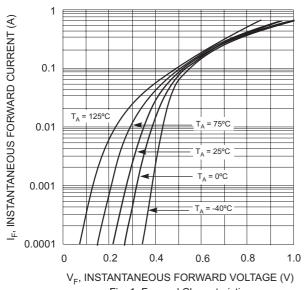
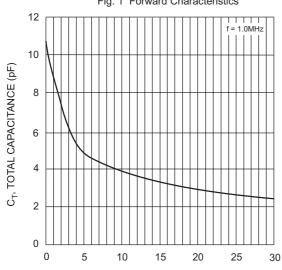
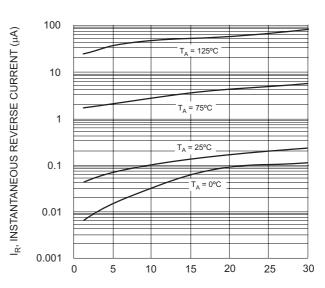


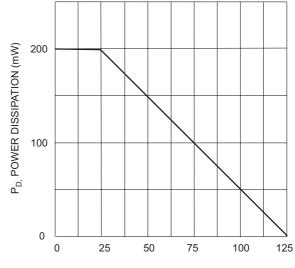
Fig. 1 Forward Characteristics



V_R, REVERSE VOLTAGE (V) Fig. 3 Typical Capacitance vs. Reverse Voltage

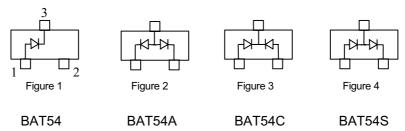


V_R, INSTANTANEOUS REVERSE VOLTAGE (V) Fig. 2 Typical Reverse Characteristics



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

Pin Configuration - Top View





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.

IMPORTANT NOTICE

APPLICATIONS DISCLAIMER

Products offer by *Micro Commercial Components Corp* . are not intended for use in Medical,

Aerospace or Military Applications.