

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth

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BAT54 THRU BAT54S

Features

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

MCC Catalog	Device Marking				Type	Pin
Number	1	2	3	4	. , , , ,	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

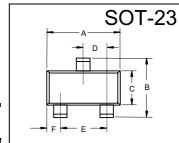
Maximum Ratings

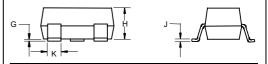
Continuos Reverse Voltage	V_R	30V
Forward ContinuousCurrent	lF	200mA
Non-Repetitive Peak Forward Current t<1s	I _{FSM}	0.6A
Total Power Dissipation @ T _A = 25°C	P_{D}	200mW
Storage Temperature Range	T _{stg}	-55°C to 150°C
Operating Junction Temperature Range	Tj	-55°C to 125°C
Soldering temperature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

Electrical Characteristics @ 25 °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	
Сараспансе	C _J	ΤΟΡΙ	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	,			

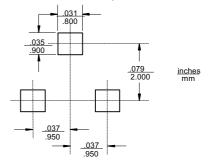
200mWatt, 30Volt Schottky Barrier Diode





DIMENSIONS						
	INCHES		ММ			
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		

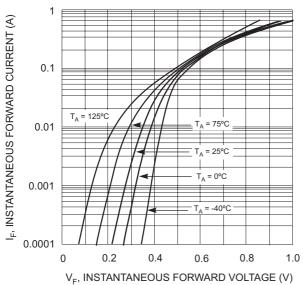
Suggested Solder Pad Layout

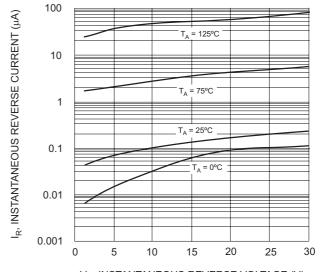


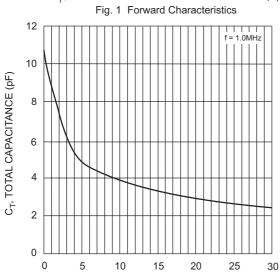
BAT54 thru BAT54S



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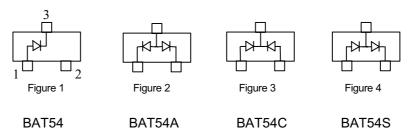




 $\label{eq:VR} {\rm V_R,\,REVERSE\,\,VOLTAGE\,\,(V)}$ Fig. 3 Typical Capacitance vs. Reverse Voltage

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

Pin Configuration - Top View





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