

**Schottky Barrier Diode****BAT54A****400 mA**

SOT-23

1. Cathode 1
2. Cathode 2
3. Anode

- GENERAL PURPOSE DETECTION
- HIGH SPEED SWITCHING
- LOW REVERSE CURRENT AND FORWARD VOLTAGE

MARKING: L42

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (  $T_a=25^\circ\text{C}$  )  
BETWEEN PIN 1 AND PIN 3 OR PIN2 AND PIN3

PARAMETERS	SYMBOL	MIN	TYP	MAX	UNIT	CONDITION
Reverse Voltage	$V_R$			30	V	$I_R=1\text{mA}$
Rectifying Current	$I_O$			200	mA	
Peak Surge Current	$I_{FSM}$			600	mA	60Hz
Forward Voltage	$V_F$			0.24 0.32 0.40 0.50 0.80	V	$I_F=0.1\text{mA}$ $I_F=1\text{mA}$ $I_F=10\text{mA}$ $I_F=30\text{mA}$ $I_F=100\text{mA}$
Reverse Current	$I_R$			2	$\mu\text{A}$	$V_R=25\text{V}$
Capacitance Between Terminal	$C_T$		2.0	10	pF	$V_R=1\text{V}, f=1\text{MHz}$
Power Dissipation	$P_c$			0.23	W	
Junction Temperature	$T_j$			125		
Storage Temperature	$T_{stg}$	-40		125		

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