

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	μA	$V_R=25\text{V}$
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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