

BAT54 A/C/S

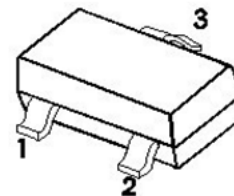
BAT54 A/C/S SOT-23 Plastic-Encapsulate Schottky Barrier Diode

General description

SOT-23 Plastic-Encapsulate Schottky Barrier Diode

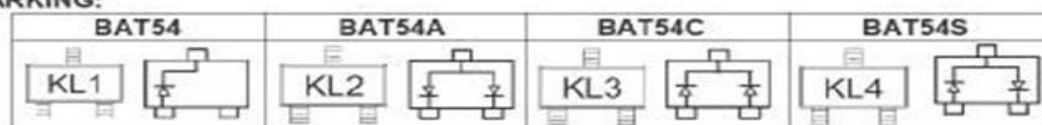
FEATURES

- High Current Capability
- Low Forward Voltage Drop
- Extremely Fast Switching Speed
- SOT-23 Small Outline Plastic Package
- Epoxy UL: 94V-0



SOT-23 Package

MARKING:



Maximum Ratings & Thermal Characteristics (Ratings at 25°C ambient temperature unless otherwise specified.)

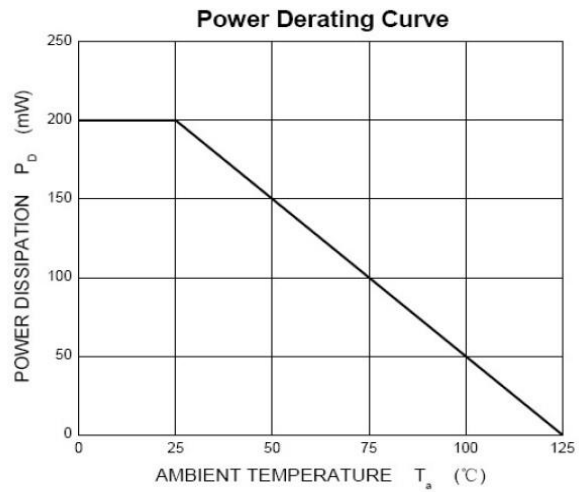
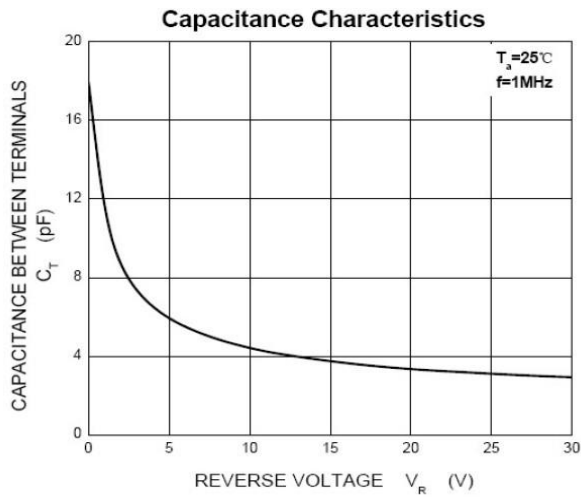
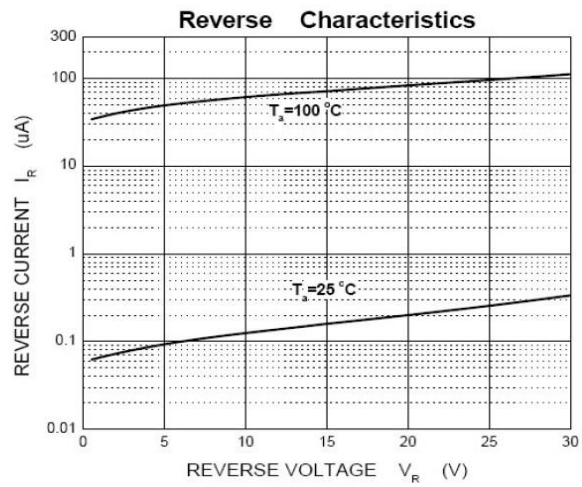
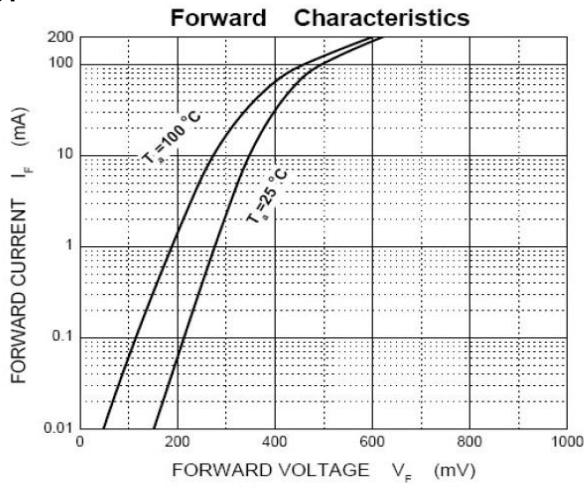
Parameters	Symbol	Limit	Unit
Maximum repetitive peak reverse voltage	VRRM	30	V
Maximum RMS voltage	VRMS	21	V
Maximum DC blocking voltage	VDC	30	V
Maximum average forward rectified current	IFM	200	mA
Peak forward surge current 8.3 ms single half sine-wave	IFSM	600	mA
Typical thermal resistance	R _{θJA}	500	°C/W
Power Dissipation	PD	200	mW
Junction Temperature	T _j	125	°C
Storage temperature range	TSTG	-50-+150	°C

Electrical Characteristics (Ratings at 25°C ambient temperature unless otherwise specified.)

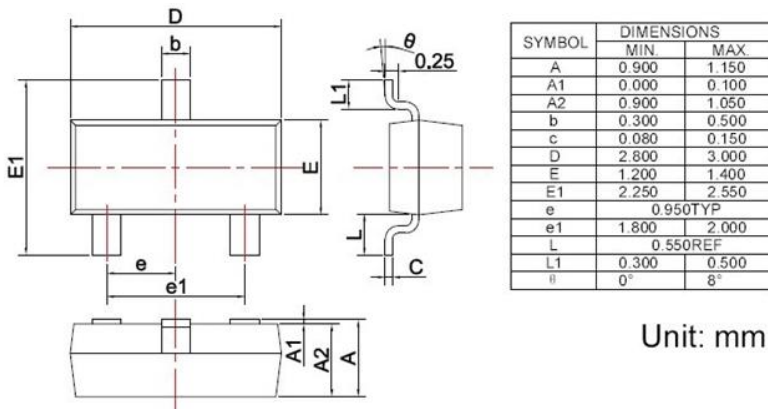
Parameters	Symbol	Test conditions	Min	Typ	Max	Unit
Maximum forward voltage	VF1	IF = 0.1mA			240	mV
	VF2	IF = 1.0mA			320	
	VF3	IF = 10mA			400	
	VF4	IF = 30mA			500	
	VF5	IF = 100mA			1000	
Maximum reverse breakdown voltage	VR	IR=100uA	30			V
Maximum reverse current	IR	VR=25V			2.0	uA
Type junction capacitance	C _j	VR = 1.0V, f = 1MHz			10	pF
Reverse Recovery time	trr	IF=IR=10mA Irr=0.1XIR, RL=100 Ω			5	ns

BAT54 A/C/S

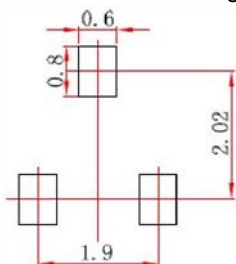
Typical Characteristics



SOT-23 PACKAGE OUTLINE Plastic surface mounted package



Precautions: PCB Design (Recommended land dimensions for SOT-23 diode. Electrode patterns for PCBs)



- Note:
1. Controlling dimension: In millimeters.
 2. General tolerance: $\pm 0.05\text{mm}$.
 3. The pad layout is for reference purposes only.

Important Notice and Disclaimer

DOESHARE has used reasonable care in preparing the information included in this document, but DOESHARE does not warrant that such information is error free. DOESHARE assumes no liability whatsoever for any damages incurred by you resulting from errors in or omissions from the information included herein.

DOESHARE no warranty, representation or guarantee regarding the documents, circuits and products specification, DOESHARE reservation rights to make changes for any documents, products, circuits and specifications at any time without notice.

Purchasers are solely responsible for the choice, selection and use of the DOESHARE products and services described herein, and DOESHARE assumes no liability whatsoever relating to the choice, selection or use of the products and services described herein.

No license, express or implied, by implication or otherwise under any intellectual property rights of DOESHARE.

Resale of DOESHARE products with provisions different from the statements and/or technical features set forth in this document shall immediately void any warranty granted by DOESHARE for the DOESHARE product or service described herein and shall not create or extend in any manner whatsoever, any liability of DOESHARE.