

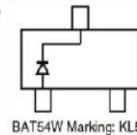
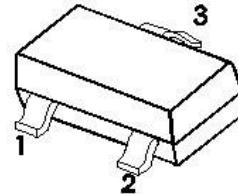
BAT54W/AW/CW/SW

BAT54W/AW/CW/SW SOT-323 Plastic-Encapsulate Schottky Barrier Diode

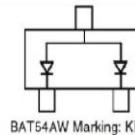
General description

SOT-323 Plastic-Encapsulate Schottky Barrier Diode

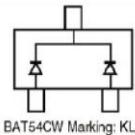
SOT-323



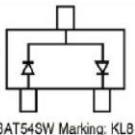
BAT54W Marking: KL5



BAT54AW Marking: KL6



BAT54CW Marking: KL7



BAT54SW Marking: KL8

Maximum Ratings @Ta=25°C

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

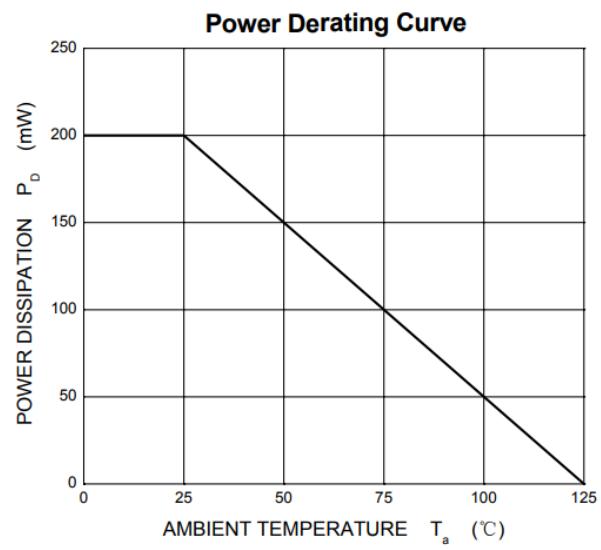
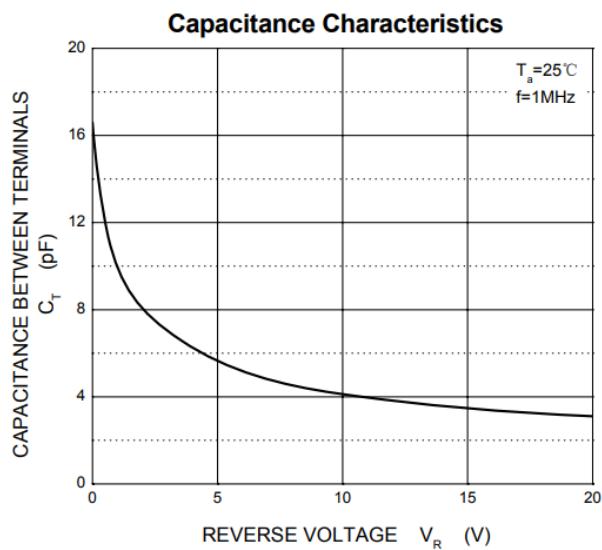
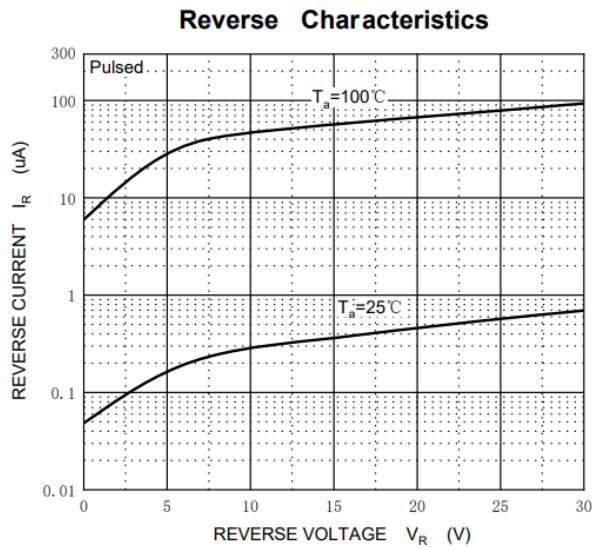
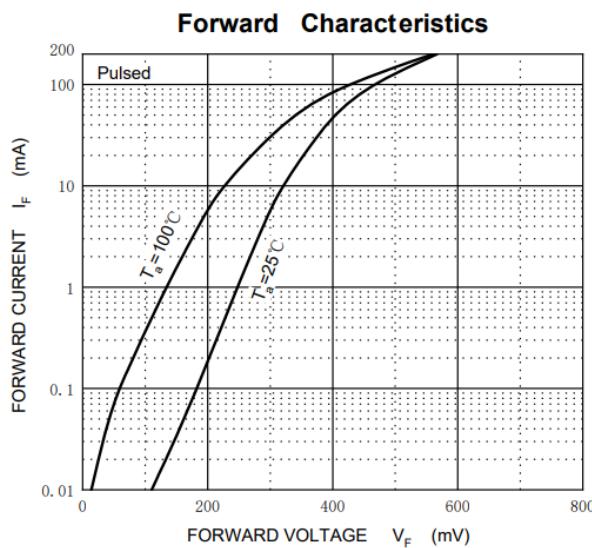
Parameters	Symbol	Limit	Unit
Maximum repetitive peak reverse voltage	VR _{RM}	30	V
Working Peak Reverse voltage	VR _{WM}	30	V
Maximum DC blocking voltage	V _{DC}	30	V
Maximum average forward rectified current	I _{FM}	200	mA
Peak forward surge current 8.3 ms single half sine-wave	I _{FSM}	600	mA
Typical thermal resistance	R _{θJA}	500	°C/W
Power Dissipation	P _D	200	mW
Junction Temperature	T _j	125	°C
Storage temperature range	T _{STG}	-50-+150	°C

Electrical Ratings @Ta=25°C

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 I _{rr} =0.1XIR, R _L =100Ω			5	ns

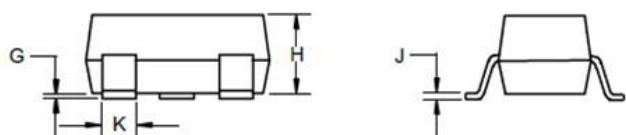
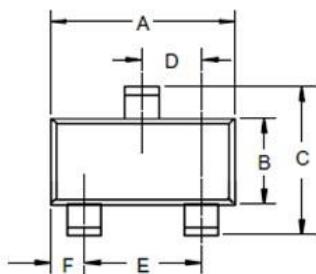
BAT54W/AW/CW/SW

Typical characteristics



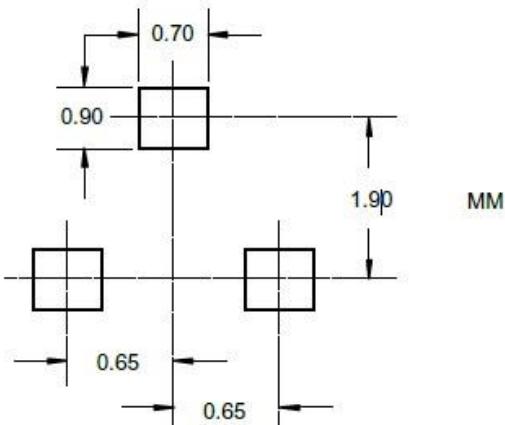
BAT54W/AW/CW/SW

SOT-323 Package information



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.071	.087	1.80	2.20	
B	.045	.053	1.15	1.35	
C	.083	.096	2.10	2.45	
D	.026 Nominal		0.65Nominal		
E	.047	.055	1.20	1.40	
F	.012	.016	.30	.40	
G	.000	.004	.000	.100	
H	.035	.039	.90	1.00	
J	.004	.010	.100	.250	
K	.006	.016	.15	.40	

Suggested Pad Layout



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.