

FEATURES

- Peak Forward Current: I_{FM}=200 mA
- Power Dissipation of 200mw



SOT-23

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
BAT54C	SOT-23	KL4	3000



MAXIMUM RATINGS (Ta=25 unless otherwise noted)

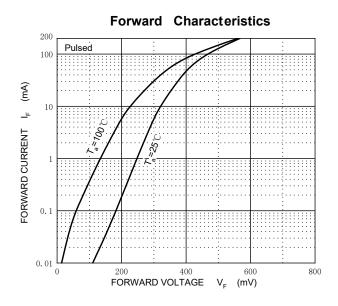
Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V _{RRM}		
Working Peak Reverse Voltage	V_{RWM}	30	V
DC Blocking Voltage	V_{R}		
Forward Continuous Current	I _{FM}	200	mA
Non-repetitive Peak Forward Surge Current @ t=8.3ms	I _{FSM}	600	mA
Repetitive Peak Forward Current @ t \leq 1s, $\delta \leq$ 0.5	I _{FRM}	300	mA
Power Dissipation	P _D	200	mW
Thermal Resistance from Junction to Ambient	R _{OJA}	500	°C/W
Operating Junction Temperature Range	Tj	-40 ~ +125	°C
Storage Temperature Range	T _{stg}	-55 ~ +150	°C

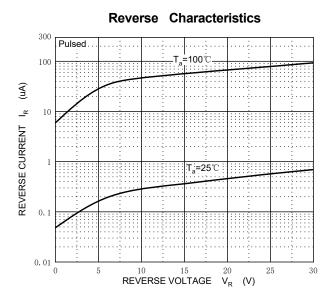
ELECTRICAL CHARACTERISTICS (Ta=25 unless otherwise specified)

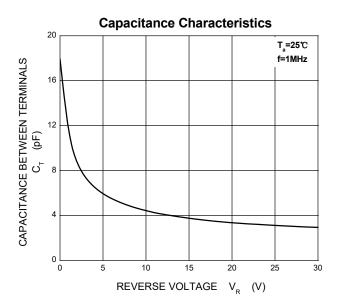
Parameter	Symbol	Min	Тур	Max	Unit	Test conditions
Reverse voltage	$V_{(BR)}$	30			٧	I _R =100μA
Forward voltage	V _F			0.24	>	I _{F1} =0.1mA
				0.32	>	I _{F2} =1mA
				0.40	V	I _{F3} =10mA
				0.50	V	I _{F4} =30mA
				1	V	I _{F5} =100mA
Reverse current	I _R			2	μA	V _R =25V
Diode capacitance	C _D			10	pF	V _R =1V,f=1MHz
Reverse recovery time	t _{rr}			5	ns	I _{F=IR=10mA} Irr= $0.1 \times I_R$,R _L = 100Ω

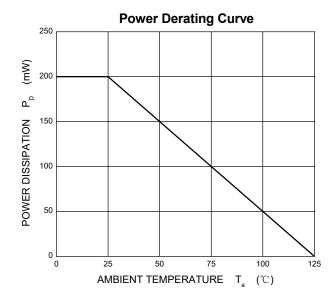


Typical Characteristics



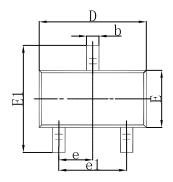


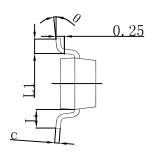


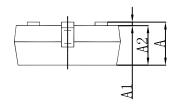




SOT-23 Package Outline Dimensions

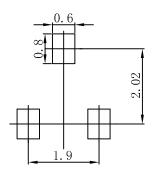






Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min	Max	Min	Max	
Α	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
E	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е	0.950 TYP		0.037 TYP		
e1	1.800	2.000	0.071	0.079	
L	0.550 REF		0.022 REF		
L1	0.300	0.500	0.012	0.020	
θ	0°	8°	0°	8°	

SOT-23 Suggested Pad Layout



- Note: 1.Controlling dimension: in millimeters.
- 2.General tolerance:± 0.05mm.
 3.The pad layout is for reference purposes only.



Attention

- Any and all HUA XUAN YANG ELECTRONICS products described or contained herein do not have specifications that can handle applications that require extremely high levels of reliability, such as life-support systems, aircraft's control systems, or other applications whose failure can be reasonably expected to result in serious physical and/or material damage. Consult with your HUA XUAN YANG ELECTRONICS representative nearest you before using any HUA XUAN YANG ELECTRONICS products described or contained herein in such applications.
- HUA XUAN YANG ELECTRONICS assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all HUA XUAN YANG ELECTRONICS products described or contained herein.
- Specifications of any and all HUA XUAN YANG ELECTRONICS products described or contained herein stipulate the performance, characteristics, and functions of the described products in the independent state, and are not guarantees of the performance, characteristics, and functions of the described products as mounted in the customer's products or equipment. To verify symptoms and states that cannot be evaluated in an independent device, the customer should always evaluate and test devices mounted in the customer's products or equipment.
- HUA XUAN YANG ELECTRONICS CO.,LTD. strives to supply high-quality high-reliability products. However, any and all semiconductor products fail with some probability. It is possible that these probabilistic failures could give rise to accidents or events that could endanger human lives, that could give rise to smoke or fire, or that could cause damage to other property. When designing equipment, adopt safety measures so that these kinds of accidents or events cannot occur. Such measures include but are not limited to protective circuits and error prevention circuits for safe design, redundant design, and structural design.
- In the event that any or all HUA XUAN YANG ELECTRONICS products(including technical data, services) described or contained herein are controlled under any of applicable local export control laws and regulations, such products must not be exported without obtaining the export license from the authorities concerned in accordance with the above law.
- No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying and recording, or any information storage or retrieval system, or otherwise, without the prior written permission of HUA XUAN YANG ELECTRONICS CO.,LTD.
- Information (including circuit diagrams and circuit parameters) herein is for example only; it is not guaranteed for volume production.

 HUA XUAN YANG ELECTRONICS believes information herein is accurate and reliable, but no guarantees are made or implied regarding its use or any infringements of intellectual property rights or other rights of third parties.
- Any and all information described or contained herein are subject to change without notice due to product/technology improvement, etc. When designing equipment, refer to the "Delivery Specification" for the HUA XUAN YANG ELECTRONICS product that you intend to use.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Schottky Diodes & Rectifiers category:

Click to view products by HXY MOS manufacturer:

Other Similar products are found below:

MA4E2039 MA4E2508M-1112 MBR0530L-TP MBR10100CT-BP MBR1545CT MMBD301M3T5G RB160M-50TR

BAS16E6433HTMA1 BAS 3010S-02LRH E6327 BAT 54-02LRH E6327 IDL02G65C5XUMA1 NSR05F40QNXT5G NSVR05F40NXT5G

NTE555 JANS1N6640 SB07-03C-TB-H SK310-T SK33A-TP SK34B-TP SS3003CH-TL-E PDS3100Q-7 GA01SHT18

CRS10I30A(TE85L,QM MA4E2501L-1290 MBRB30H30CT-1G JANTX1N5712-1 SB007-03C-TB-E SK33B-TP SK35A-TP SK38B-LTP

NTE505 NTSB30U100CT-1G VS-6CWQ10FNHM3 CRG04(T5L,TEMQ) ACDBA1100LR-HF ACDBA1200-HF ACDBA240-HF

ACDBA3100-HF CDBQC0530L-HF ACDBA260LR-HF ACDBA1100-HF MA4E2502L-1246 10BQ015-M3/5BT 10BQ060-M3/5BT

NRVB130LSFT1G CRS08TE85LQM PMAD1108-LF B120Q-13-F 1N5819T-G B0530WSQ-7-F