BAT165E6874HTMA1
SCHOTTKY BARRIER DIODE

Features

- Average Rectified Output Current:I_O= 1A
- Power Dissipation of 250mW



SOD-323



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
BAT165E6874HTMA1	SOD-323	SL	3000

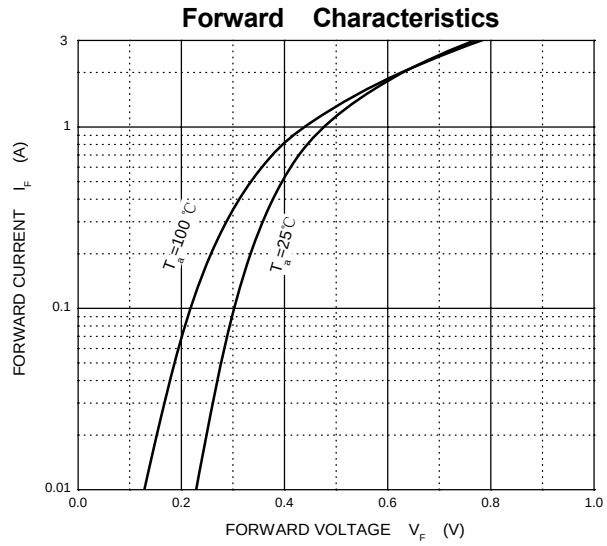
Maximum Ratings (Ta=25°C unless otherwise noted)

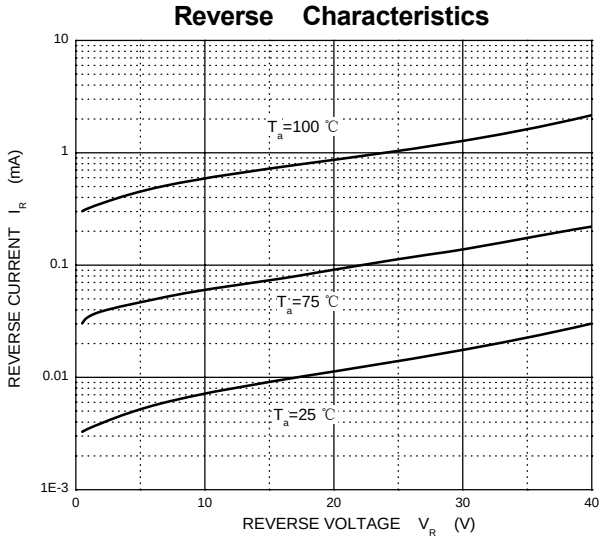
Parameter	Symbol	Limit	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	40	V
Peak Repetitive Peak Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	40	V
RMS Reverse Voltage	$V_{R(RMS)}$	28	V
Average Rectified Output Current	I_O	1	A
Non-repetitive Peak Forward Surge Current @t=8.3ms	I_{FSM}	9	A
Repetitive Peak Forward Current	I_{FRM}	1.5	A
Power Dissipation	P_D	250	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	200	°C/W
Operation Junction Temperature Range	T_J	- 40~+125	°C
Storage Temperature Range	T_{STG}	- 55~+150	°C

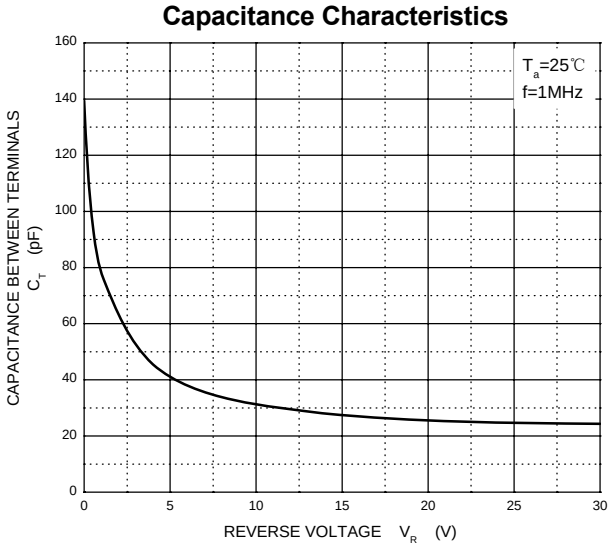
Electrical Characteristics (Ta=25°C unless otherwise specified)

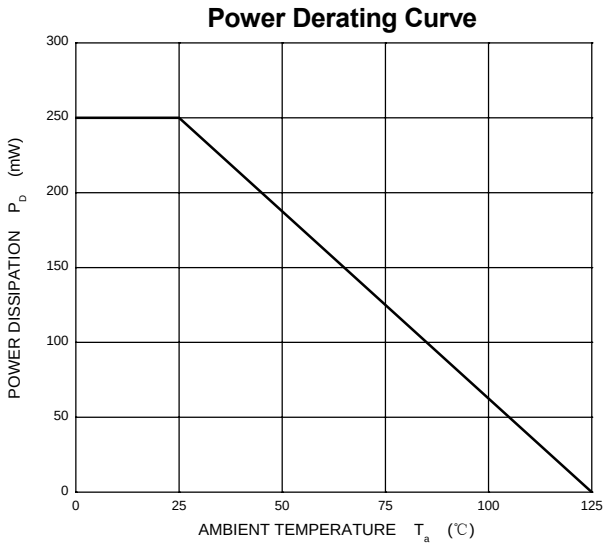
Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	I_R= 1mA	40		V
Reverse voltage leakage current	I_R	V_R=40V		1	mA
Forward voltage	V_F	I_F=1A I_F=3A		0.6 0.9	V
Diode capacitance	C_D	V_R=4V, f=1MHz		120	pF

Typical Characteristics

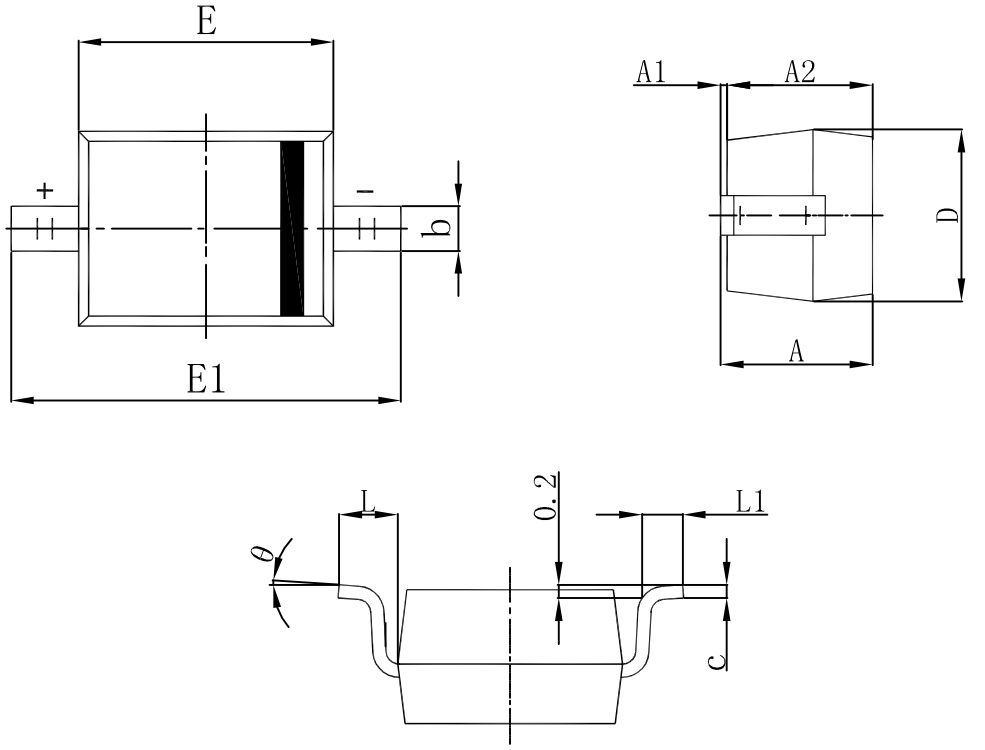








SOD-323 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A		1.100		0.043
A1	0.000	0.100	0.000	0.004
A2	0.800	1.000	0.031	0.039
b	0.250	0.350	0.010	0.014
c	0.080	0.150	0.003	0.006
D	1.200	1.400	0.047	0.055
E	1.600	1.800	0.063	0.071
E1	2.500	2.750	0.098	0.108
L	0.475 REF		0.019 REF	
L1	0.250	0.400	0.010	0.016
θ	0°	8°	0°	8°

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HXY MOSFET:

TPSMB100CA-VR PESDSC2FD5VU PJEC5V0M1FN2 ESD5LM5.0C-HXY HSTS521050B331 HAZ4007-01H
PESDNC2XD5VBF HESDSLC3V3D3B HPTVSUC3D5VB TPSMB28A-VR PJSD24CW_R1 60N06
AQ15C-01FTG AZ4007-01H HACPDQC5V0-HF LM393DR-HXY ESD5L5.0C-HXY HESD36VD3B
HLY323BC1524L HSD15C.TCT HSEN2411D3 HRCLAMP3371ZCTFT HSEN3611D3 RLSD32A121V
HSG3D15B3.3MA PESDLC2FD3V3BH AZ4836-01L BV05C-H HCEZ36V,L3F PESDNC2XD5VBL