BAT48ZFILM
SCHOTTKY BARRIER DIODE

Features

- Forward Continuous Current:I_{FM}= 350mA
- Power Dissipation of 400mW



SOD-123



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
BAT48ZFILM	SOD-123	S4	3000

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

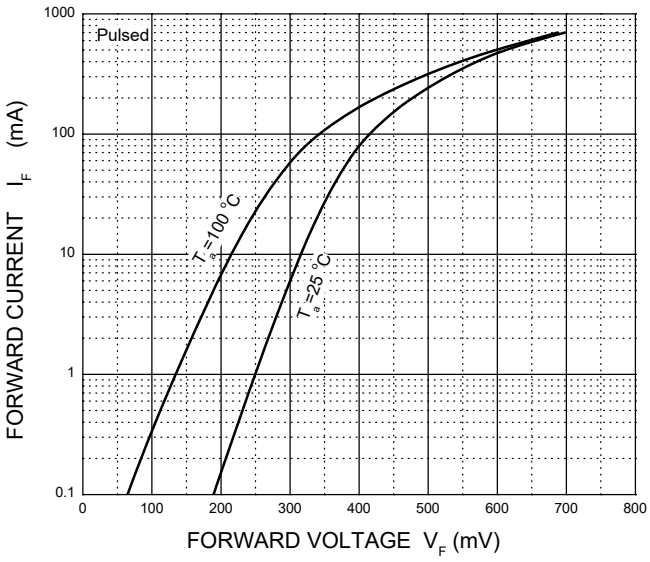
Symbol	Parameter	Value	Unit
V_{RRM}	Peak Repetitive Reverse Voltage	40	V
V_{RWM}	Working Peak Reverse Voltage		
$V_{R(RMS)}$	RMS Reverse Voltage	28	V
I_{FM}	Forward Continuous Current	350	mA
I_{FSM}	Non-repetitive Peak Forward Surge Current@t=8.3ms	2	A
P_D	Power Dissipation	400	mW
$R_{\Theta JA}$	Thermal Resistance from Junction to Ambient	250	°C/W
T_j	Junction Temperature	125	°C
T_{stg}	Storage Temperature	-55~+150	°C

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

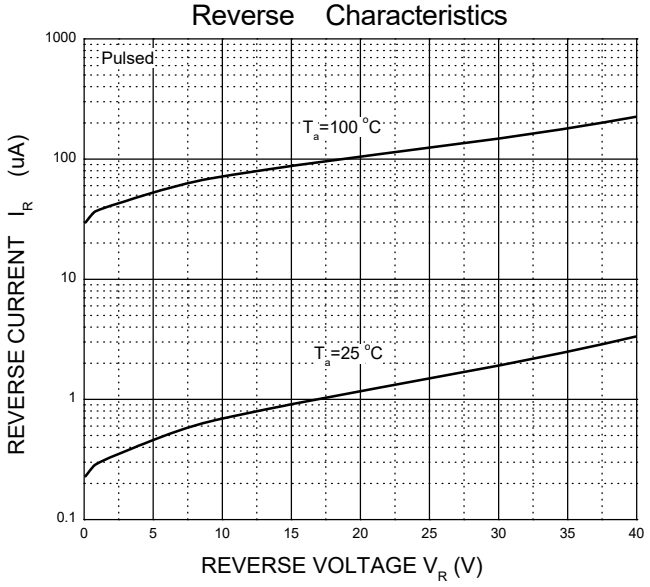
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	$V_{(BR)}$	I_R=100μA	40			V
Reverse current	I_R	V_R=30V			5	μA
		V_R=20V			2	
		V_R=10V			1	
Forward voltage	V_F	I_F=1mA		0.27		V
		I_F=5mA		0.32		
		I_F=20mA			0.37	
		I_F=200mA			0.6	
Total capacitance	C_{tot}	V_R=0V,f=1MHz		50		pF
Reverse recovery time	t_{rr}	I_F= I_R=200mA, I_{rr}=0.1×I_R, R_L=100Ω		10		ns

Typical Characteristics

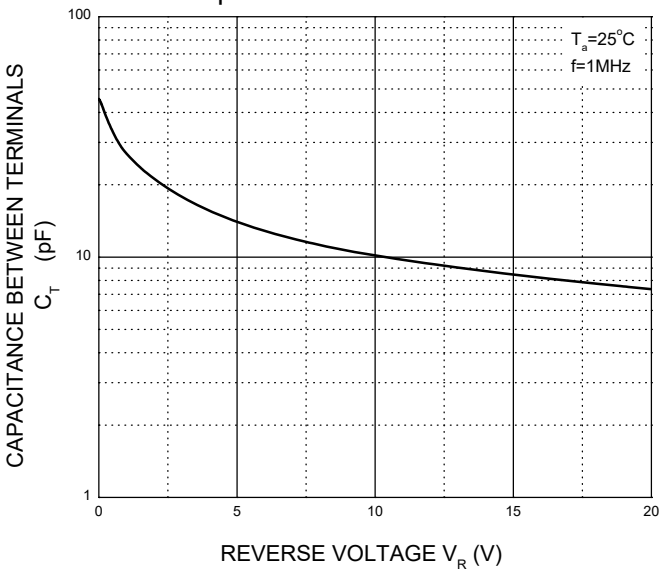
Forward Characteristics



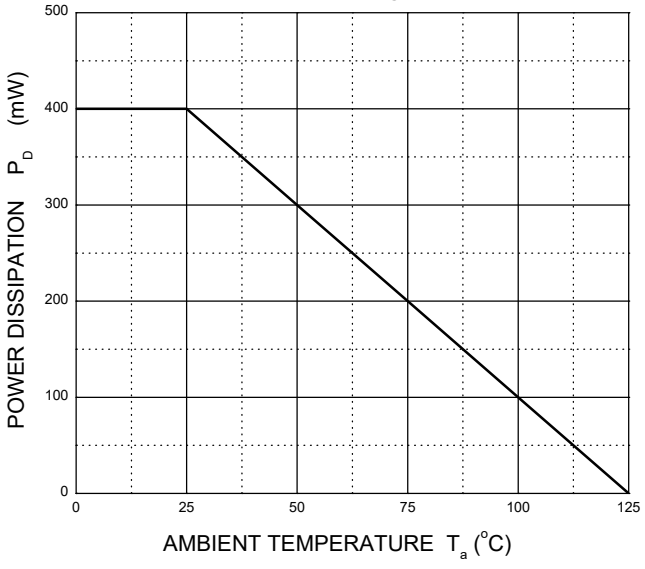
Reverse Characteristics



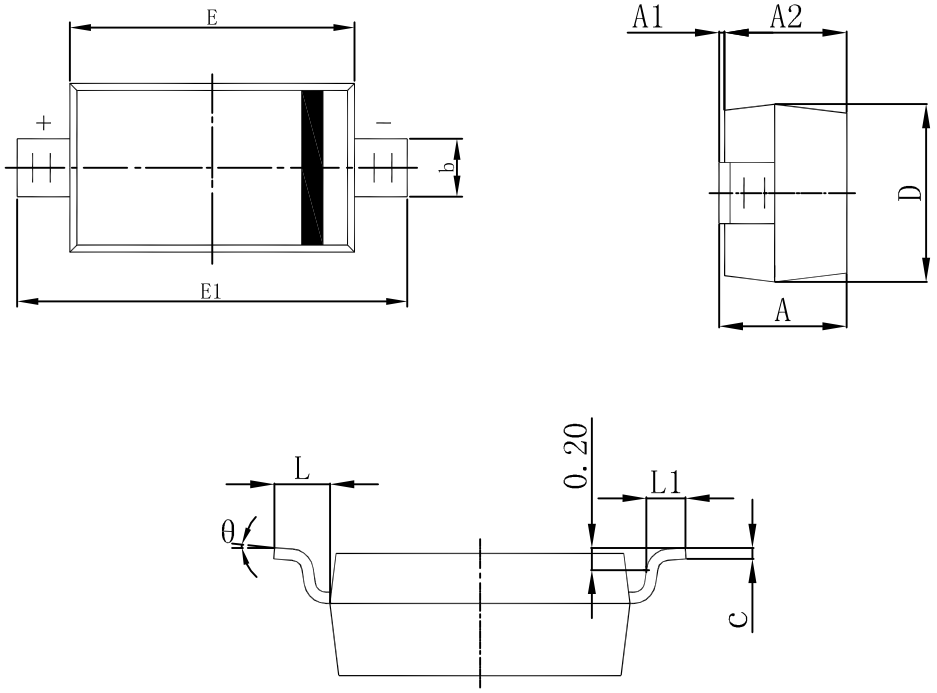
Capacitance Characteristics



Power Derating Curve



SOD-123 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	1.050	1.250	0.041	0.049
A1	0.000	0.100	0.000	0.004
A2	1.050	1.150	0.041	0.045
b	0.450	0.650	0.018	0.026
c	0.080	0.150	0.003	0.006
D	1.500	1.700	0.059	0.067
E	2.600	2.800	0.102	0.110
E1	3.550	3.850	0.140	0.152
L	0.500 REF		0.020 REF	
L1	0.250	0.450	0.010	0.018
θ	0°	8°	0°	8°

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HXY MOSFET:

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