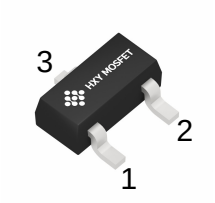
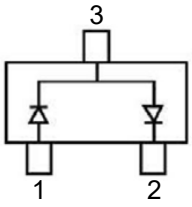
BAS40-04Q-13-F
SCHOTTKY BARRIER DIODE

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)
BAS40-04Q-13-F	SOT-23	44	3000

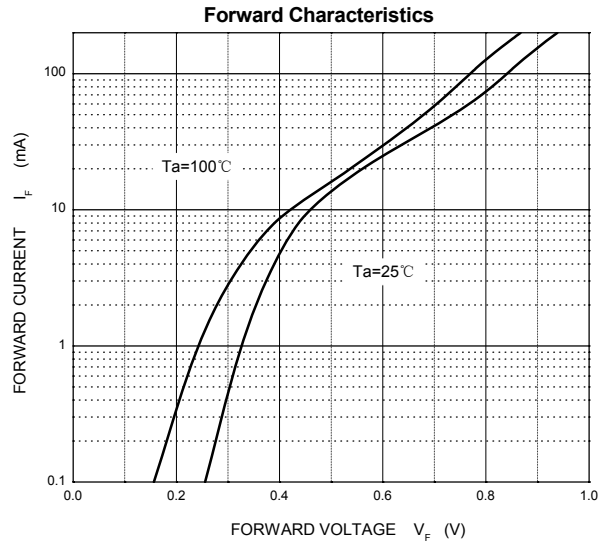
Maximum Ratings (Ta=25°C unless otherwise noted)

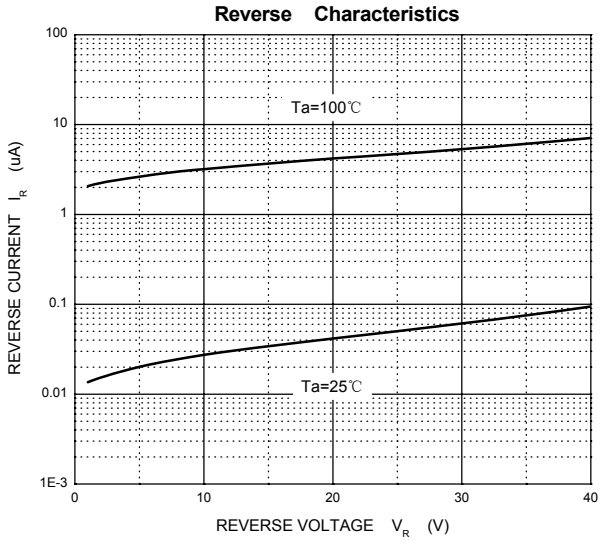
Parameter	Symbol	Limit	Unit
Peak Repetitive Peak Reverse Voltage Working Peak Reverse Voltage DC Blocking V oltage	V_{RRM} V_{RWM} V_R	40	V
Forward Continuous Current	I_{FM}	200	mA
Average Rectified Output Current	I_O	200	mA
Non-Repetitive Peak Forward Surge Current @ t = 8.3ms	I_{FSM}	0.6	A
Power Dissipation	P_D	200	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	500	°C/W
Operating Junction Temperature	T_J	125	°C
Storage Temperature	T_{STG}	-55~+150	°C

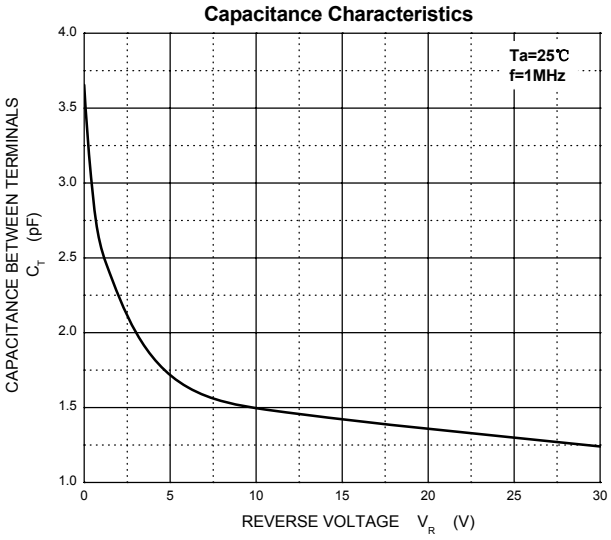
Electrical Characteristics (Ta=25°C unless otherwise specified)

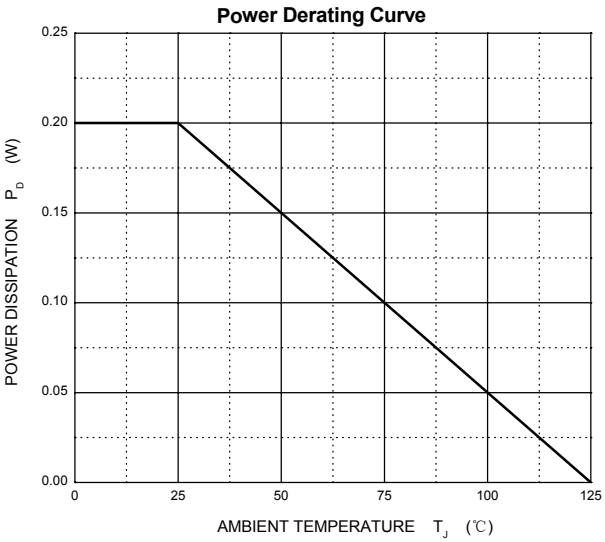
Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	I_R=10μA	40		V
Reverse voltage leakage current	I_R	V_R=30V		200	nA
Forward voltage	V_F	I_F=1mA I_F=40mA		380 1000	mV
Diode capacitance	C_D	V_R=0,f=1MHz		5	pF
Reverse recovery time	t_{rr}	I_{rr}=1mA, I_R=I_F=10mA,R_L=100Ω		5	ns

Typical Characteristics

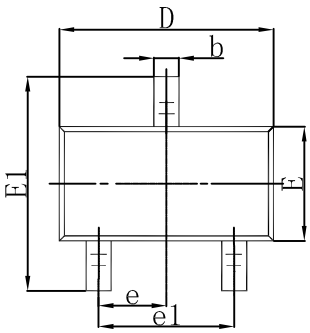


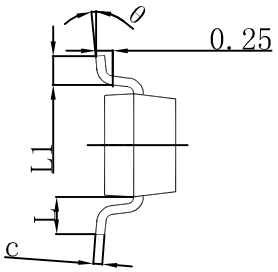


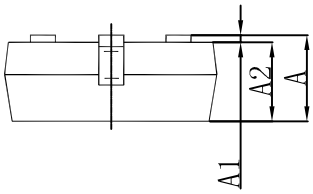




SOT-23 Package Outline Dimensions

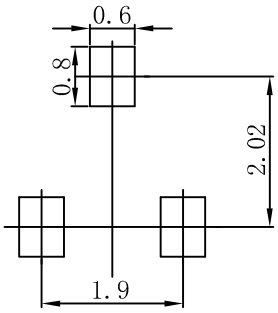






Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
e	0.950 TYP		0.037 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.

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PESDNC2XD5VBL RLSD32A121V TPSMB28A-VR PESDSC2FD5VU AZ4007-01H BV05C-H
ESD5LM5.0C-HXY HAZ4007-01H HSTS521050B331 HCEZ36V,L3F PJEC5V0M1FN2 HPTVSUC3D5VB
AZ4836-01L HESD36VD3B HRCLAMP3371ZCTFT PESDNC2XD5VBF TPSMB100CA-VR AQ15C-01FTG