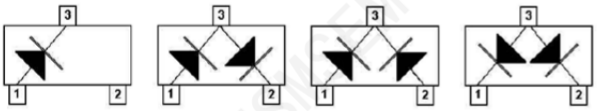
Features

- Moisure Sensitivity Level 1
- Low Forward Voltage
- Surface Mount device



SOT-23

Marking



BAS40　BAS40-04　BAS40-05　BAS40-06

BAS40-JSM	43
BAS40-04-JSM	44
BAS40-05-JSM	45
BAS40-06-JSM	46

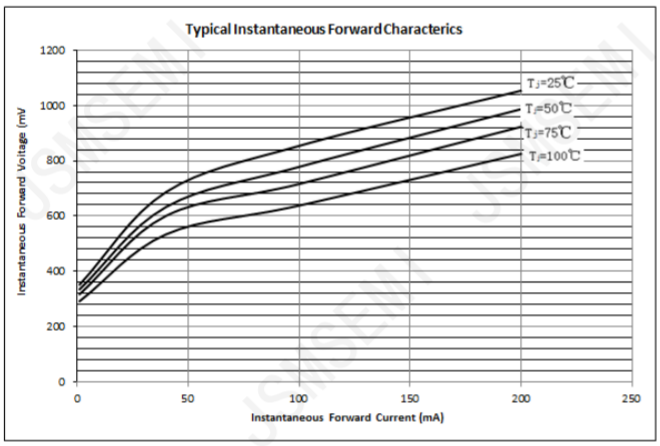
Maximum Rating, (T_a=25℃ Unless otherwise specified)

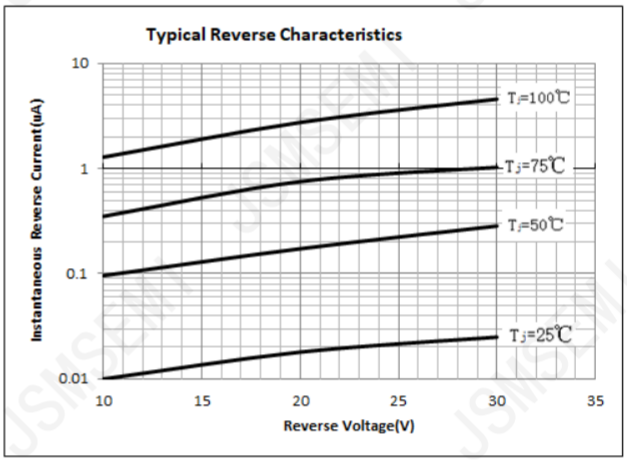
Item	Symbol	Value	Unit
Peak repetitive peak reverse voltage Working peak reverse voltage DC Blocking voltage	VRRM VRWM VR	40	V
Forward continuous current	IFM	200	mA
Power dissipation	PD	200	mW
Thermal resistance junction to ambient	RθJA	500	℃/W
Junction temperature	TJ	125	℃

Electrical Characteristics（T_a=25 ℃Unl ess otherwise specified）

Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	V(BR)	IR=10μA	40		V
Reverse voltage leakage current	IR	VR=30V		200	nA
Forward voltage	VF	IF=1 mA IF=40mA		380 1000	mV
Diode cap acitance	Cj	VR=0V f=1MHz		5	pF
Reveres recovery time	trr	Irr=0.5mA, IR=IF=5mA RL=100Ω		5	ns

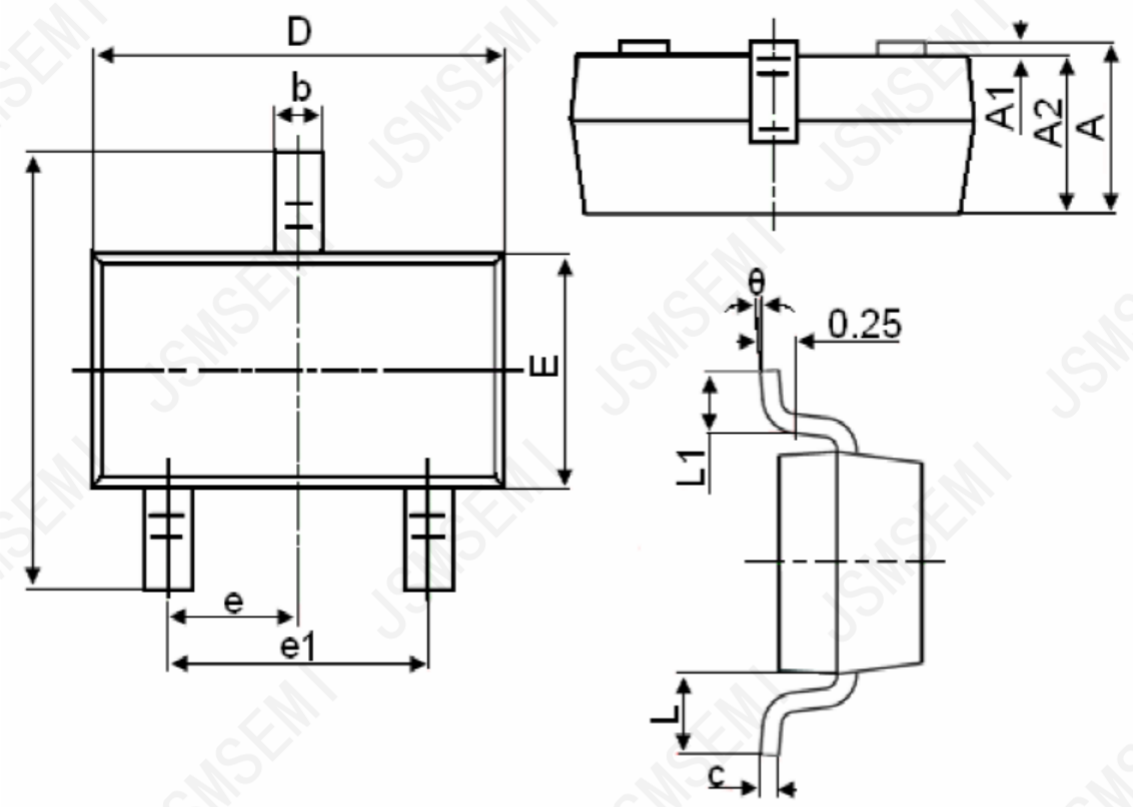
Typical Characteristics





Package Information

SOT-23



Symbol	Dimensions in Millimeters(mm)		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	0.950TYP		0.037TYP	
e1	1.800	2.000	0.071	0.079
L	0.550REF		0.022REF	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°

Revision History

Rev.	Change	Date
V1.0	Initial version	2/23/2024

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