

SOT-323 Plastic-Encapsulate Diodes

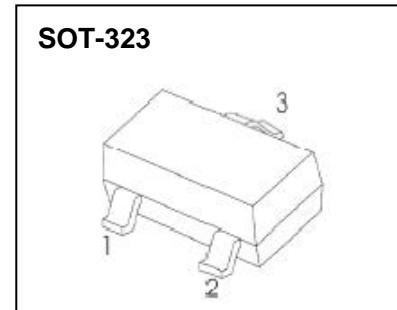
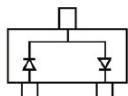
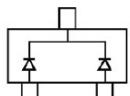
SCHOTTKY BARRIER DIODE

FEATURES

- Low Forward Voltage
- Fast Switching



BAS40W MARKING: 43• BAS40W-06 MARKING: 46 BAS40W-05 MARKING: 45 BAS40W-04 MARKING: 44



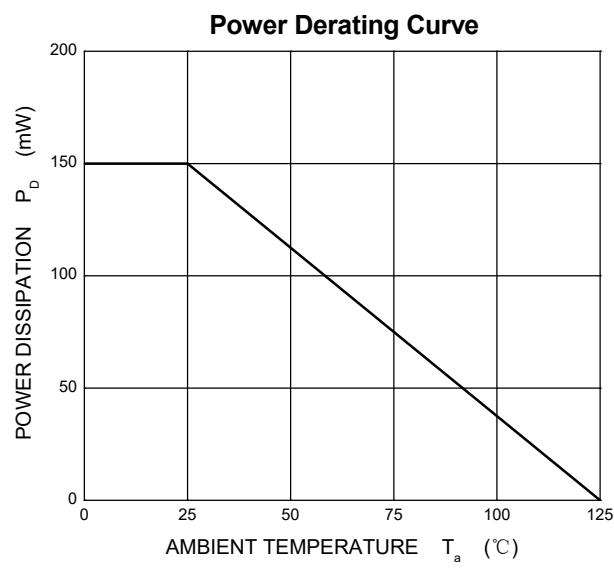
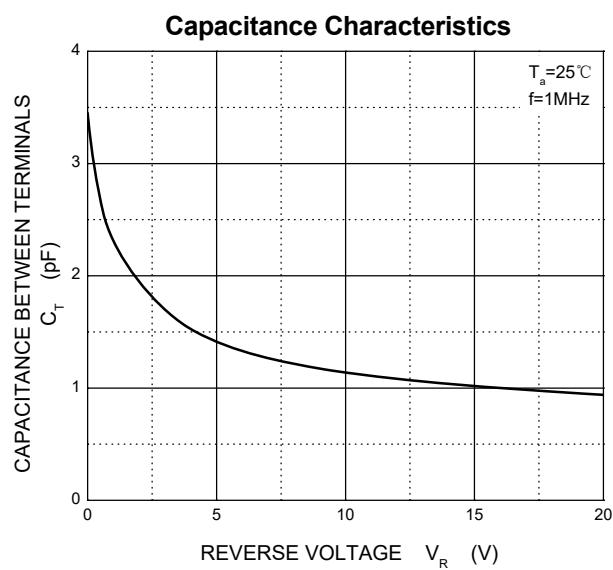
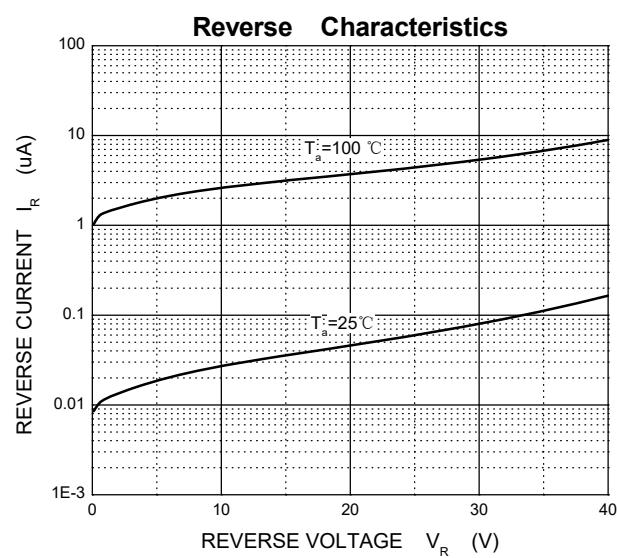
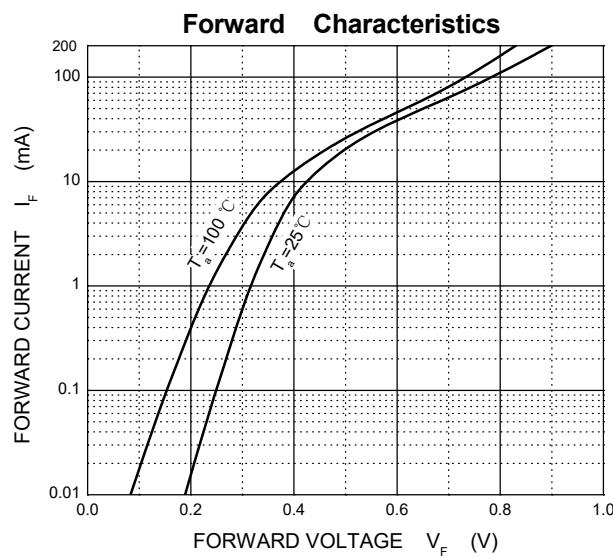
Maximum Ratings @Ta=25°C

Parameter	Symbol	Limit	Unit
Peak repetitive peak reverse voltage	V _{RRM}		
Working peak reverse voltage	V _{RWM}	40	V
DC blocking voltage	V _R		
Forward continuous current	I _{FM}	200	mA
Power dissipation	P _D	150	mW
Thermal resistance junction to ambient	R _{θJA}	667	°C/W
Operating Junction Temperature Range	T _J	-40 ~ +125	°C
Storage Temperature Range	T _{STG}	-55 ~ +150	°C

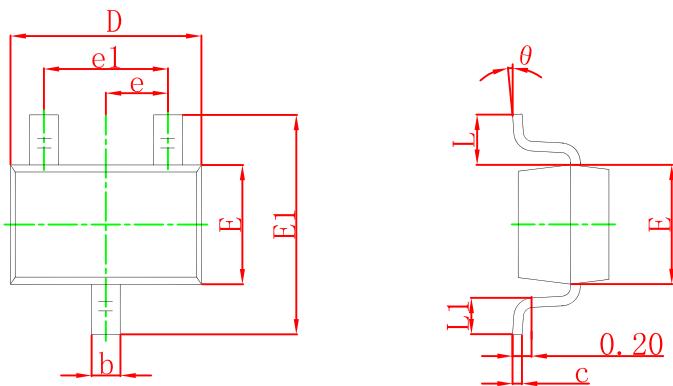
ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	V _(BR)	I _R = 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

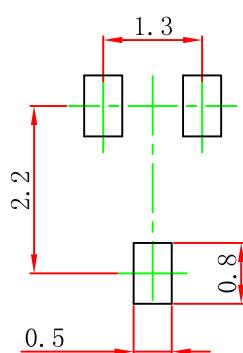


SOT-323 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.100	0.035	0.043
A1	0.000	0.100	0.000	0.004
A2	0.900	1.000	0.035	0.039
b	0.200	0.400	0.008	0.016
c	0.080	0.150	0.003	0.006
D	2.000	2.200	0.079	0.087
E	1.150	1.350	0.045	0.053
E1	2.150	2.450	0.085	0.096
e	0.650 TYP		0.026 TYP	
e1	1.200	1.400	0.047	0.055
L	0.525 REF		0.021 REF	
L1	0.260	0.460	0.010	0.018
θ	0°	8°	0°	8°

SOT-323 Suggested Pad Layout



Note:

1. Controlling dimension: in millimeters.
2. General tolerance: $\pm 0.05\text{mm}$.
3. The pad layout is for reference purposes only.

NOTICE

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