

BAS70/-04/-05/-06

BAS70/-04/-05/-06 SOT-23 Plastic-Encapsulate Diode

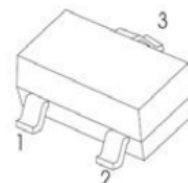
General description

SOT-23 Plastic-Encapsulate Diode

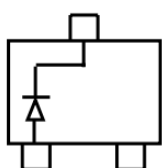
SOT-23

FEATURES

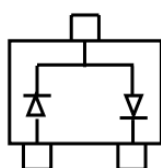
- High Current Capability
- Low Forward Voltage Drop
- Extremely Fast Switching Speed



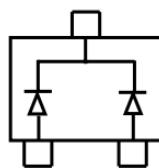
MARKING



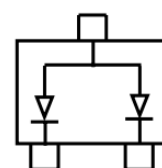
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Maximum Ratings & Thermal Characteristics (Ratings at 25°C ambient temperature unless otherwise specified.)

Parameters	Symbol	Limit	Unit
Maximum repetitive peak reverse voltage	VRRM	70	V
Maximum DC blocking voltage	VDC	70	V
Forward Continuous Current	IF	70	mA
Maximum average forward rectified current	IFM	100	mA
Typical thermal resistance	RθJA	500	°C/W
Power Dissipation	PD	200	mW
Junction Temperature	Tj	125	°C
Storage temperature range	TSTG	-50-+150	°C

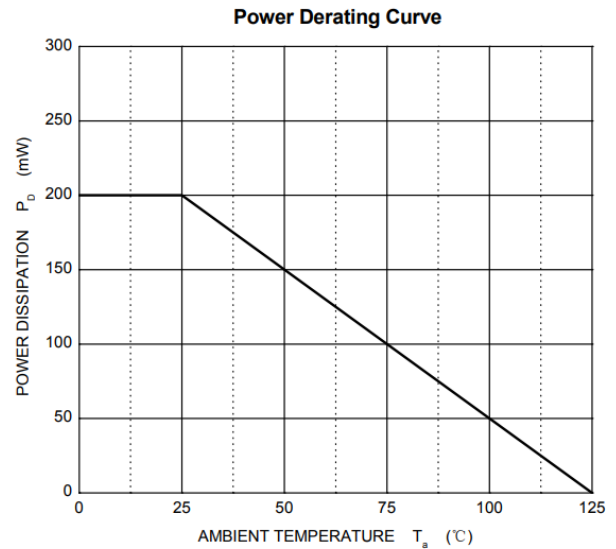
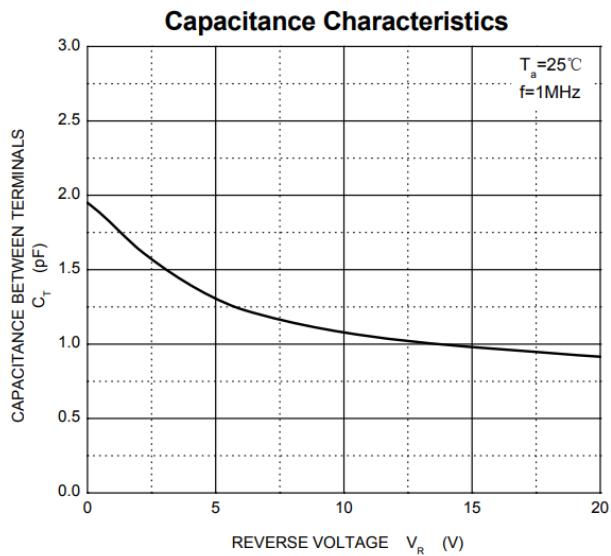
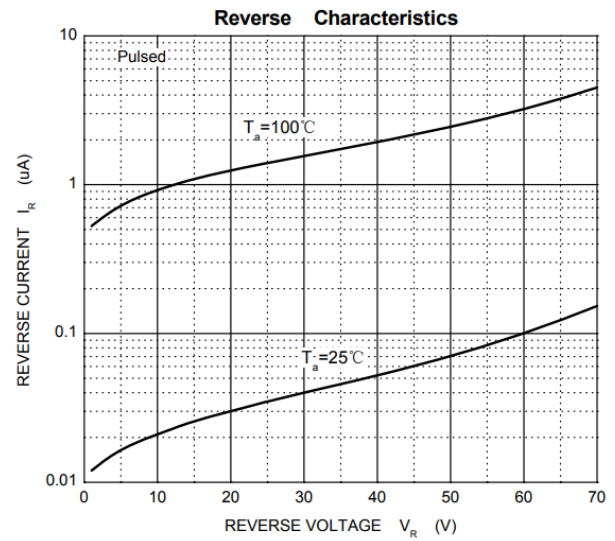
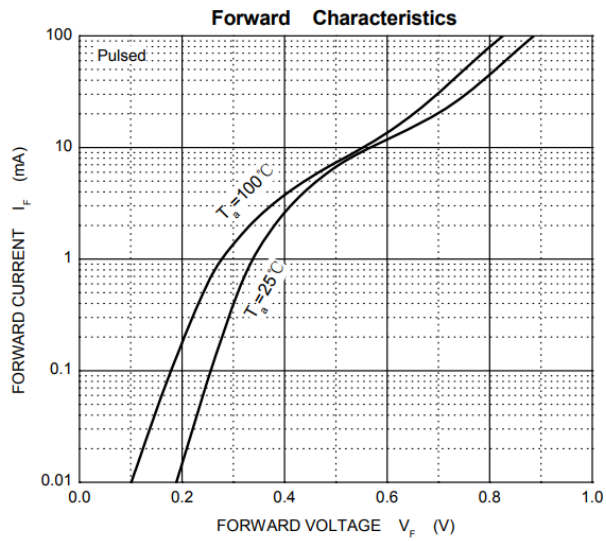
Electrical Characteristics (Ratings at 25°C ambient temperature unless otherwise specified).

Parameters	Symbol	Test conditions	Min	Typ	Max	Unit
Maximum forward voltage	VF1	IF = 1mA			410	mV
	VF2	IF = 15mA			1000	
Maximum reverse breakdown voltage	VR	IR=10uA	70			V
Maximum reverse current	IR	VR=50V			100	nA
Type junction capacitance	CD	VR = 0V, f = 1MHz			2	pF
Reverse Recovery time	trr	IF=IR=10mA Irr=1XIR, RL=100Ω			5	ns



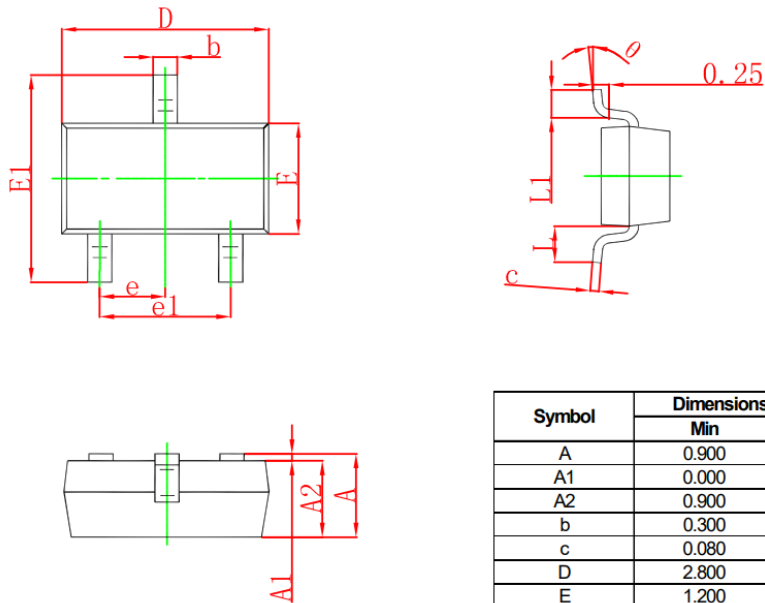
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Typical Performance Characteristics



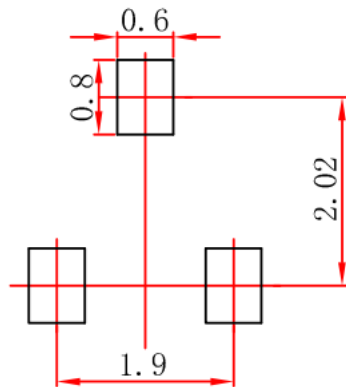
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SOT-23 PACKAGE OUTLINE



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°

PCB Design (Recommended land dimensions for SOT-23 diode. Electrode patterns for PCBs)



Note:

1. Controlling dimension: in millimeters.
2. General tolerance: ± 0.05 mm.
3. The pad layout is for reference purposes only.

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