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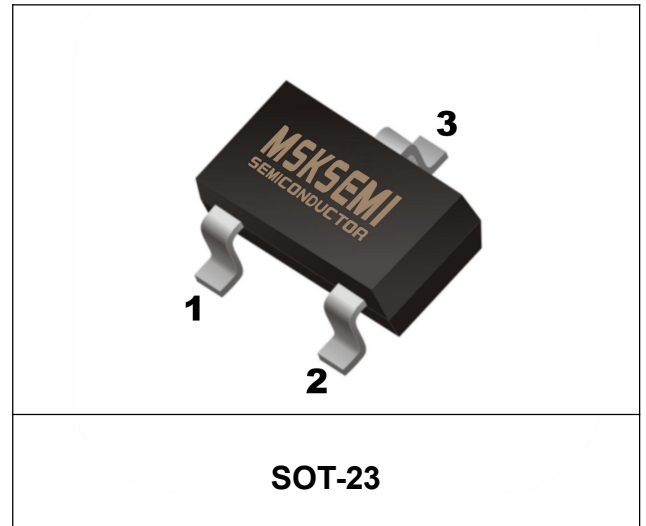
PLED

**BAS70/-04/-05/-06**

**Product specification**

**Features**

- Low turn-on voltage
- Fast switching
- Also available in lead free version



**Reference News**

Pin Configuration				
Marking				
P/N	<b>BAS70Marking:73</b>	<b>BAS70-04Marking:74</b>	<b>BAS70-05Marking:75</b>	<b>BAS70-06Marking:76</b>

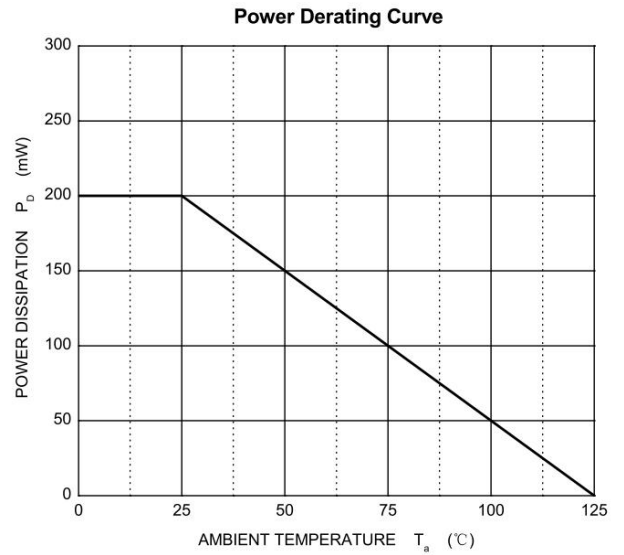
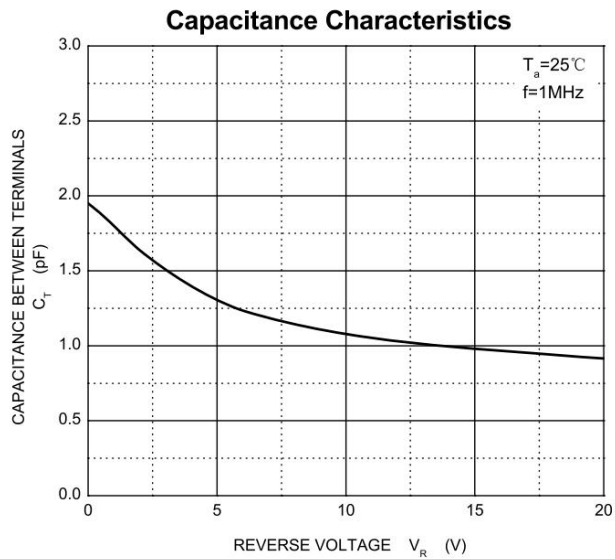
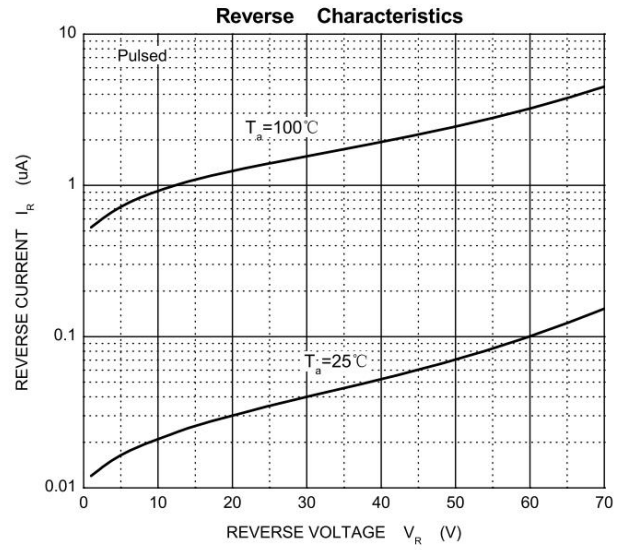
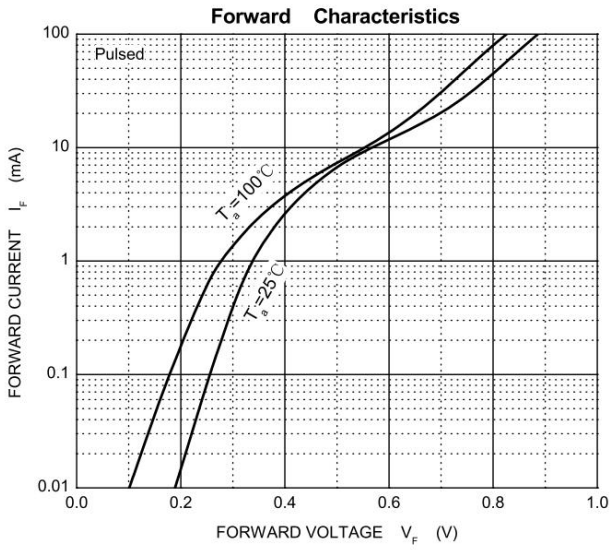
**MAXIMUM RATINGS**@Ta=25°C

Symbol	Parameter	Value	Unit
V <sub>R</sub>	DCVoltage	70	V
I <sub>F</sub>	ForwardContinuousCurrent	70	mA
I <sub>FSM</sub>	Non-RepetitivePeakForwardSurgeCurrent@ t=8.3ms	100	mA
P <sub>D</sub>	PowerDissipation	200	mW
R <sub>9JA</sub>	ThermalResistanceJunctiontoAmbient	500	°C/W
T <sub>J</sub>	OperatingJunctionTemperatureRange	-40~+125	°C
T <sub>stg</sub>	StorageTemperatureRange	-55~+150	°C

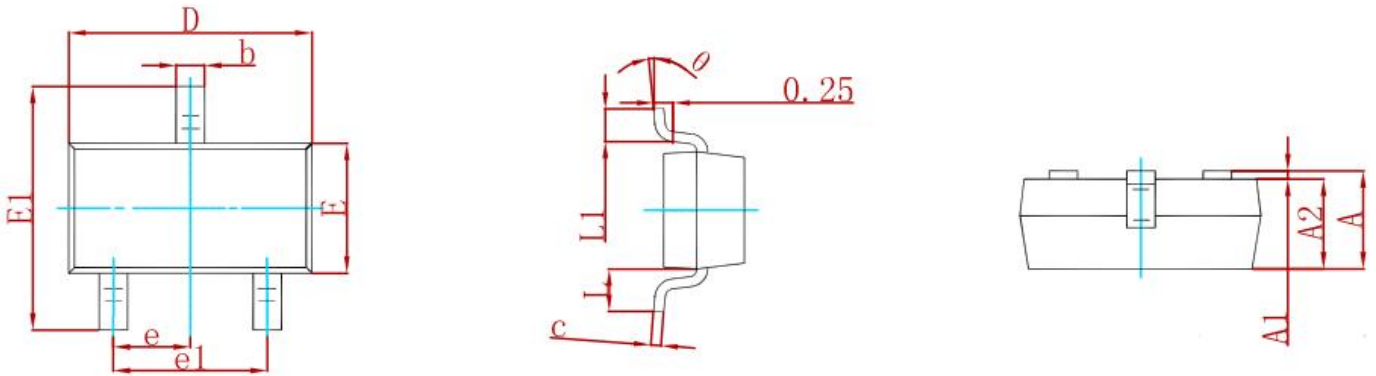
**ELECTRICAL CHARACTERISTICS**(Ta=25°C unless otherwise specified)

Parameter	Symbol	Testconditions	Min	Max	Unit
Reverse breakdown voltage	V <sub>(BR)</sub>	I <sub>R</sub> = 10μA	70		V
Reverse voltage leakage current	I <sub>R</sub>	V <sub>R</sub> = 50V		100	nA
Forward voltage	V <sub>F</sub>	I <sub>F</sub> = 1mA I <sub>F</sub> = 15mA		410 1000	mV
Diode capacitance	C <sub>D</sub>	V <sub>R</sub> = 0Vf = 1MHz		2	pF
Reverse recovery time	t <sub>rr</sub>	I <sub>F</sub> = I <sub>R</sub> = 10mA, I <sub>rr</sub> = 0.1 x I <sub>R</sub> , R <sub>L</sub> = 100Ω		5	ns

**ELECTRICAL CHARACTERISTICS CURVE**

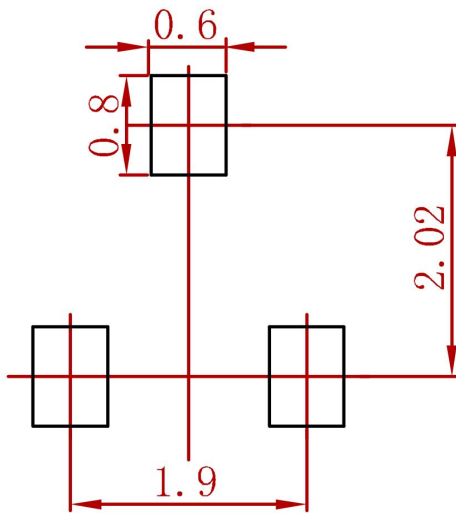


**PACKAGE MECHANICAL DATA**



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
theta	0°	8°	0°	8°

**Suggested Pad Layout**



Note:

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

**REEL SPECIFICATION**

P/N	PKG	QTY
BAS70/-04/-05/-06	SOT-23	3000

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