## MSKSEMI















**ESD** 

TVS

TSS

MOV

GDT

**PLED** 

# Broduct data sheet







#### **FEATURES**

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



BAS70 Marking: 73



BAS70-04 Marking: 74



BAS70-05 Marking: 75



BAS70-06 Marking: 76

#### **MARKING:**

BAS70	BAS70-04	BAS70-05	BAS70-06
73	74	75	76

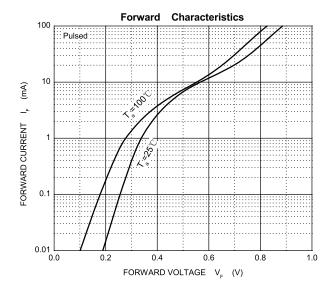
#### MAXIMUM RATINGS @T a=25°C

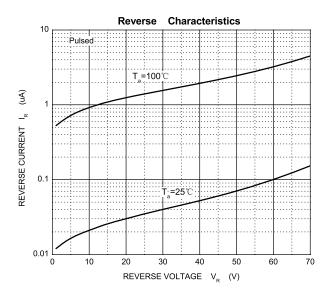
Symbol	Parameter	Value	Unit
V <sub>R</sub>	DC Voltage	70	V
IF	Forward Continuous Current	70	mA
I <sub>FSM</sub>	Non-Repetitive Peak Forward Surge Current @ t = 8.3ms	100	mA
P <sub>D</sub>	Power Dissipation	200	mW
Reja	Thermal Resistance Junction to Ambient	500	°C/W
TJ	Operating Junction Temperature Range	-40 ~ +125	°C
T <sub>stg</sub>	Storage Temperature Range	-55 ~ +150	℃

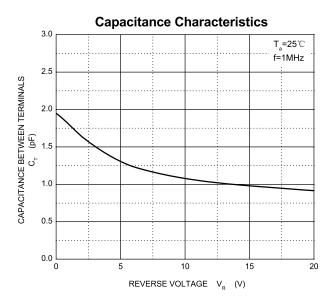
#### **ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)**

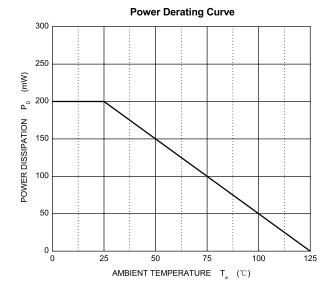
Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	I <sub>R</sub> = 10μA	70		V
Reverse voltage leakag e current	I <sub>R</sub>	V <sub>R</sub> =50V		100	nA
Forward voltage	V <sub>F</sub>	I <sub>F</sub> =1mA I <sub>F</sub> =15mA		410 1000	mV
Diode cap acitance	$C_D$	V <sub>R</sub> =0V f=1MHz		2	pF
Reveres recovery time	t <sub>rr</sub>	$I_F = I_R = 10 \text{mA}, I_{rr} = 0.1 \text{x} I_R,$ $R_L = 100 \Omega$		5	ns



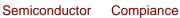






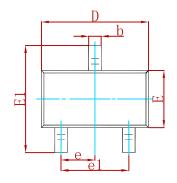


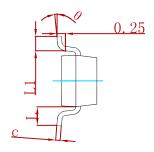


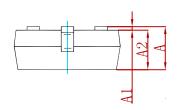




#### **PACKAGE MECHANICAL DATA**

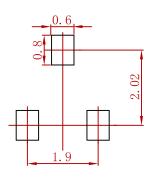






Cumbal	Dimensions In Millimeters		Dimensions In Inches	
Symbol	Min	Max	Min	Max
Α	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
С	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
Е	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
е	0.950 TYP		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°

### **Suggested Pad Layout**



- 1.Controlling dimension:in millimeters.2.General tolerance:± 0.05mm.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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