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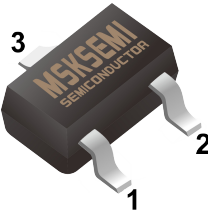
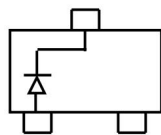
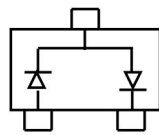
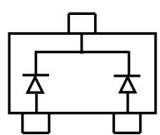
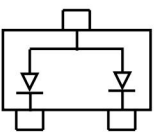
## **BAS70W/-04/-05/-06**

**Product specification**

**FEATURES**

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

**Reference News**

PACKAGE OUTLINE	BAS70W	BAS70W-04	BAS70W-05	BAS70W-06
				
	<b>K73</b>	<b>K74</b>	<b>K75</b>	<b>K76</b>
SOT-323	MARKING:K73	MARKING:K74	MARKING:K75	MARKING:K76

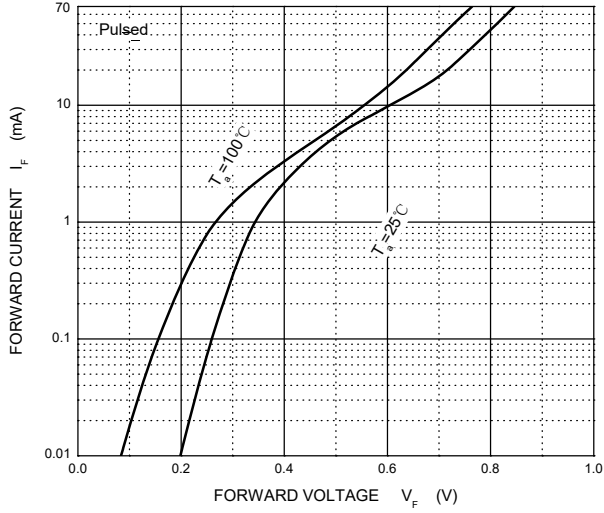
**Maximum Ratings @Ta=25°C**

Symbol	Parameter	Value	Unit
$V_R$	DC Voltage	70	V
$I_F$	Forward Continuous Current	70	mA
$I_{FSM}$	Non-Repetitive Peak Forward Surge Current @ t = 8.3ms	100	mA
$P_D$	Power Dissipation	200	mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	500	°C/W
$T_J$	Operating Junction Temperature Range	-40 ~ +125	°C
$T_{stg}$	Storage Temperature Range	-55 ~ +150	°C

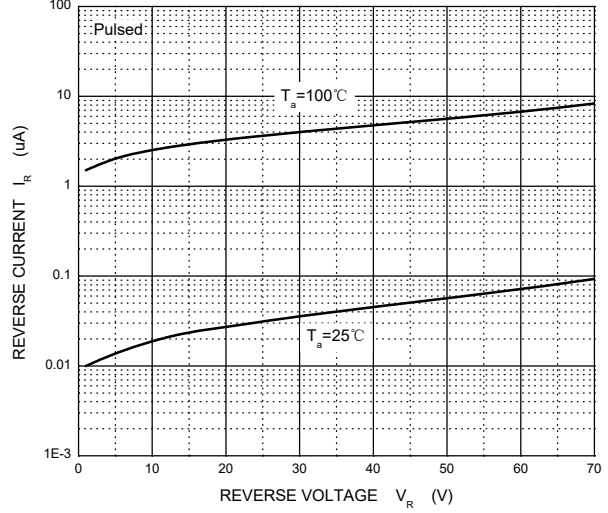
**ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)**

Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	$I_R = 10\mu A$	70		V
Reverse voltage leakage current	$I_R$	$V_R = 50V$		100	nA
Forward voltage	$V_F$	$I_F = 1mA$ $I_F = 15mA$		410 1000	mV
Diode capacitance	$C_D$	$V_R = 0V, f = 1MHz$		2	pF
Revers recovery time	$t_{rr}$	$I_F = I_R = 10mA, I_{rr} = 0.1 \times I_R,$ $R_L = 100\Omega$		5	ns

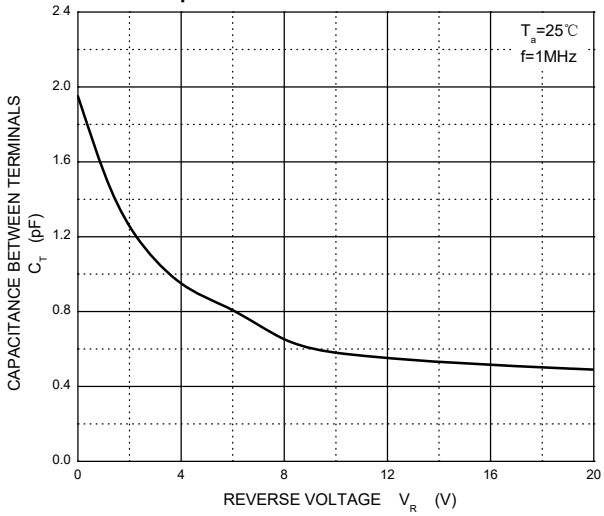
**Forward Characteristics**



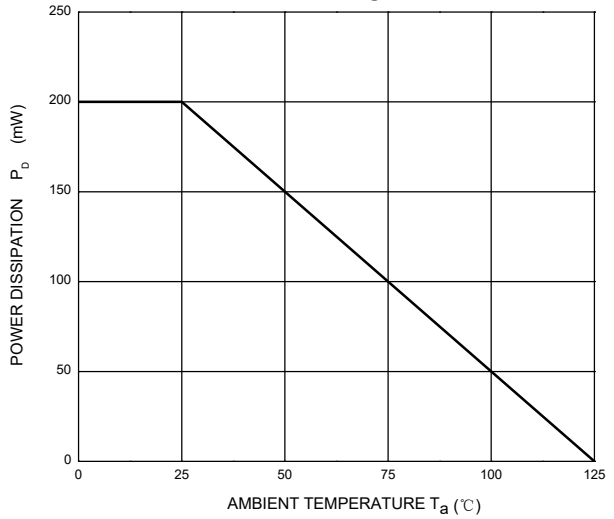
**Reverse Characteristics**



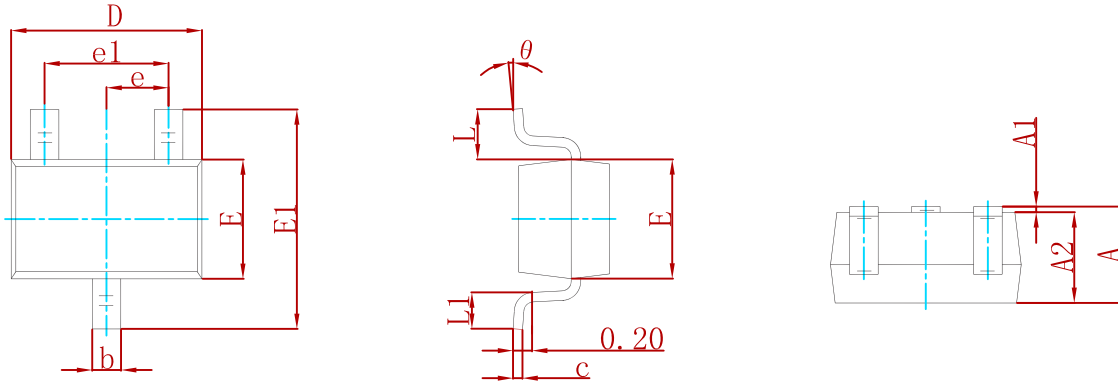
**Capacitance Characteristics Per Diode**



**Power Derating Curve**

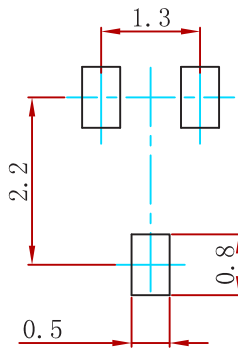


**PACKAGE MECHANICAL DATA**



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°

**Suggested Pad Layout**



Note:  
 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
BAS70W/-04/-05/-06	SOT-323	3000

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