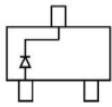
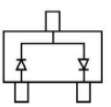
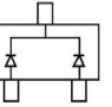
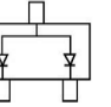
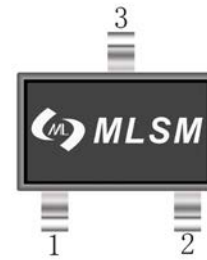


Features

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

BAS70W	BAS70W-04	BAS70W-05	BAS70W-06
			
Marking:K73	Marking:K74	Marking:K75	Marking:K76
			



SOT-323 top view



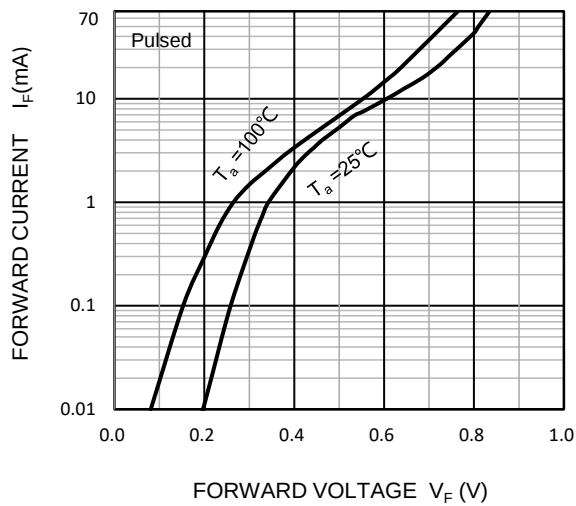
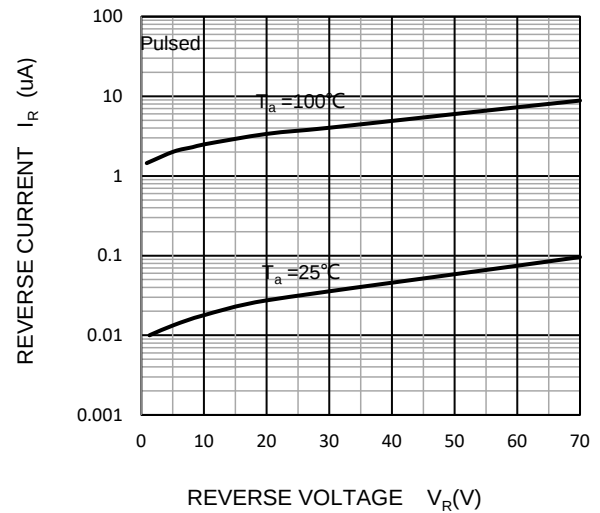
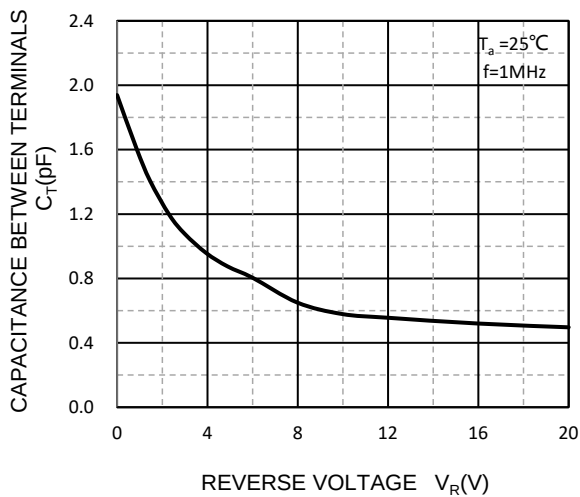
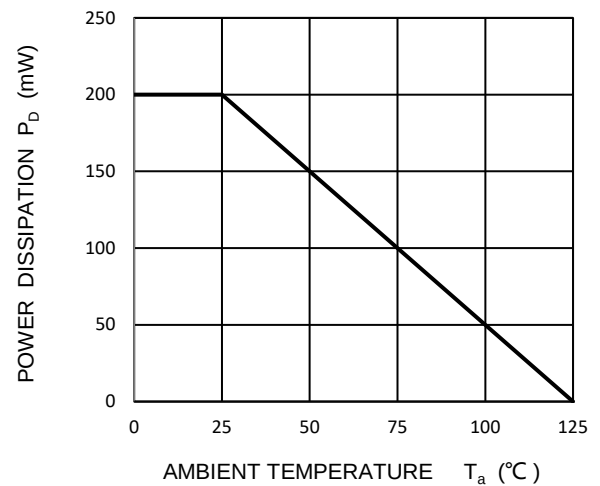
Halogen-Free

Maximum Ratings @Ta=25°C

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

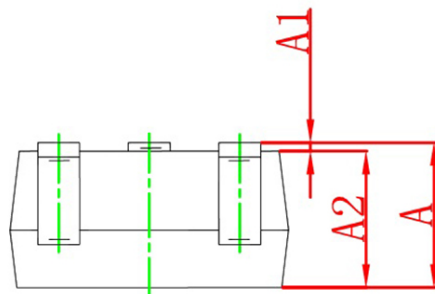
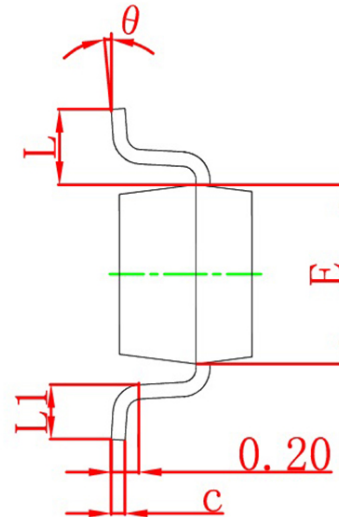
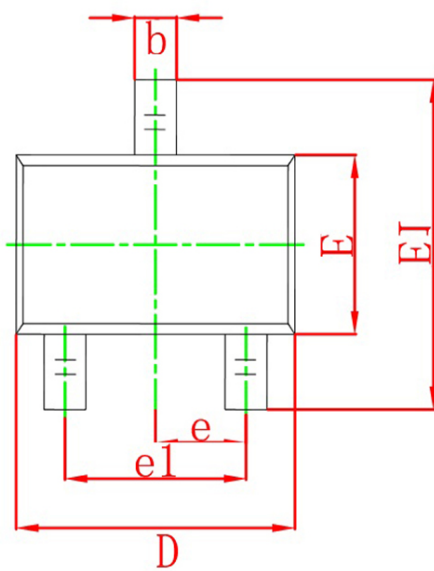
ELECTRICAL CHARACTERISTICS(Ta=25°C unless otherwise specified)

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

Typical Operating Characteristics
Forward Characteristics

Reverse Characteristics

Capacitance Characteristics

Power Derating Curve

Ordering Information (Example)

Type	Package	Marking	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
BAS70W	SOT-323	73	3,000	45,000	180,000	7"reel
BAS70W-04	SOT-323	74	3,000	45,000	180,000	7"reel
BAS70W-05	SOT-323	75	3,000	45,000	180,000	7"reel
BAS70W-06	SOT-323	76	3,000	45,000	180,000	7"reel

SOT-323 Package information



Symbol	Dimensions in Millimeters(mm)		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	0.650TYP		0.026TYP	
e1	1.200	1.400	0.047	0.055
L	0.525REF		0.021REF	
L1	0.260	0.460	0.010	0.018
θ	0°	8°	0°	8°