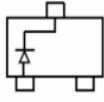
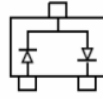
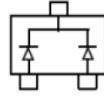
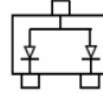
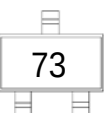
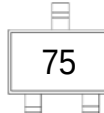
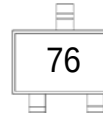
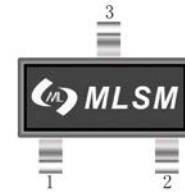


Features

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

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



SOT-23 top view



Pb-Free



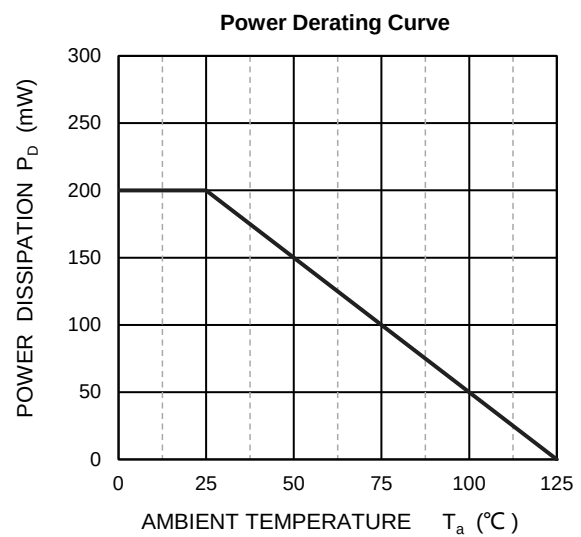
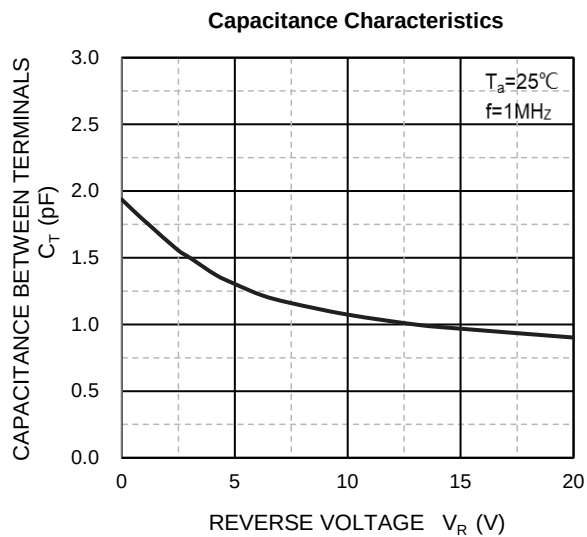
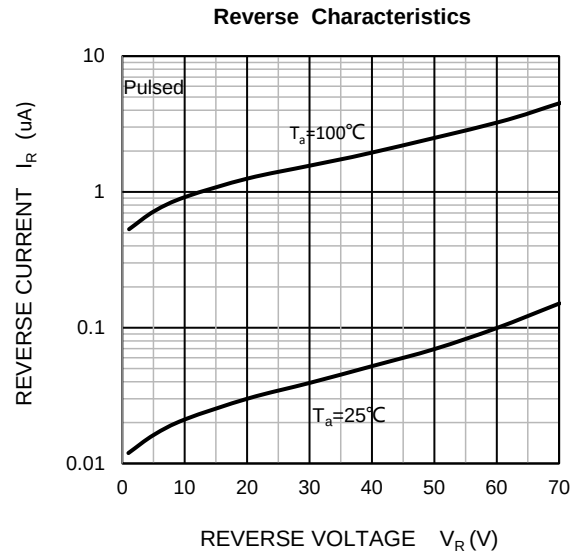
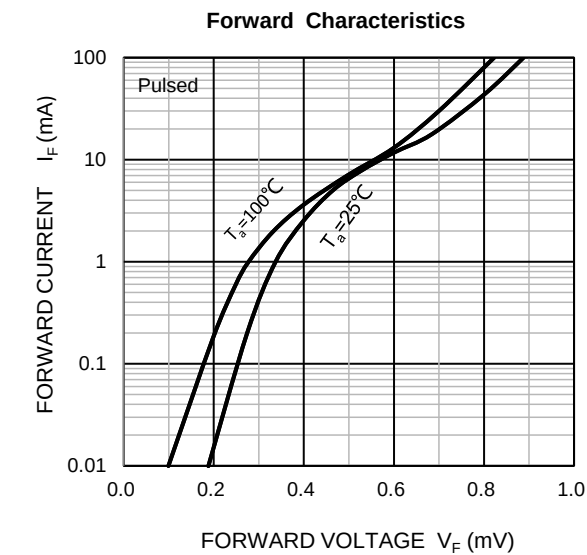
Halogen-Free

Maximum Ratings($T_a=25^{\circ}\text{C}$ unless otherwise noted)

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 @ $t=8.3\text{ms}$	100	mA
P_D	Power Dissipation	200	mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	500	$^{\circ}\text{C/W}$
T_J	Operating Junction Temperature Range	-40 ~ +125	$^{\circ}\text{C}$
T_{STG}	Storage Temperature Range	-55 ~ +150	$^{\circ}\text{C}$

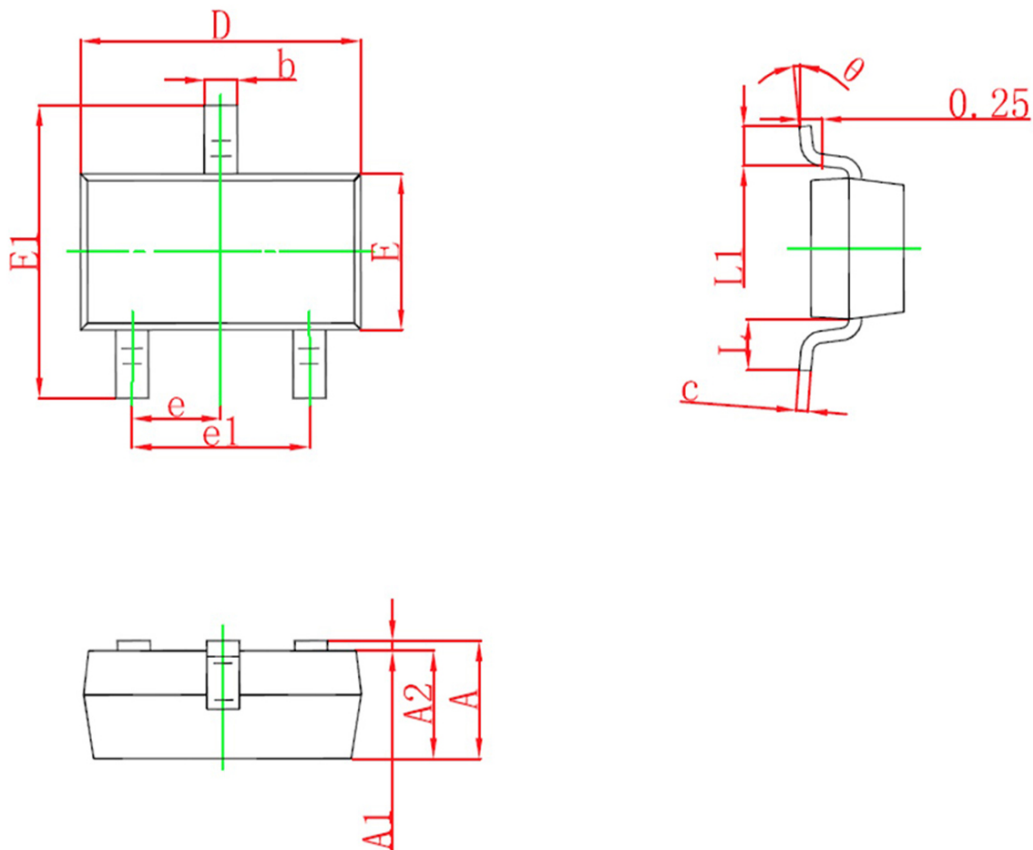
ELECTRICAL CHARACTERISTICS($T_a=25^{\circ}\text{C}$ unless otherwise specified)

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

Typical Operating Characteristics

Ordering Information (Example)

Type	Package	Marking	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
BAS70	SOT-23	73	3,000	45,000	180,000	7"reel
BAS70-04	SOT-23	74	3,000	45,000	180,000	7"reel
BAS70-05	SOT-23	75	3,000	45,000	180,000	7"reel
BAS70-06	SOT-23	76	3,000	45,000	180,000	7"reel

SOT-23 Package information



Symbol	Dimensions in Millimeters(mm)		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
E1	2.250	2.550	0.088	0.100
E	1.200	1.400	0.047	0.055
e	0.950TYP		0.037TYP	
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°