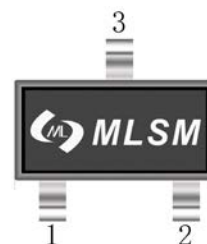
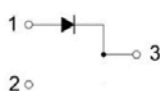
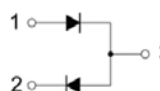
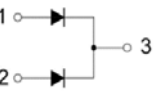
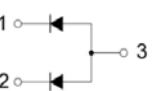
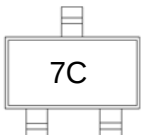
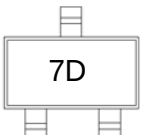
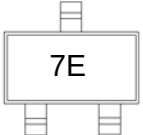
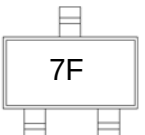


Features

- Low Turn-on Voltage
- Fast Switching



SOT-523 top view

BAS70T	BAS70-04T	BAS70-05T	BAS70-06T
			
Marking:7C	Marking:7D	Marking:7E	Marking:7F
			



Pb-Free



Halogen-Free

Maximum Ratings @Ta=25°C

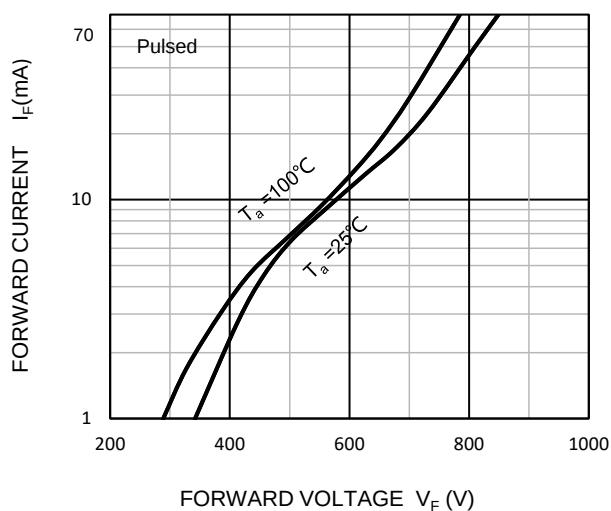
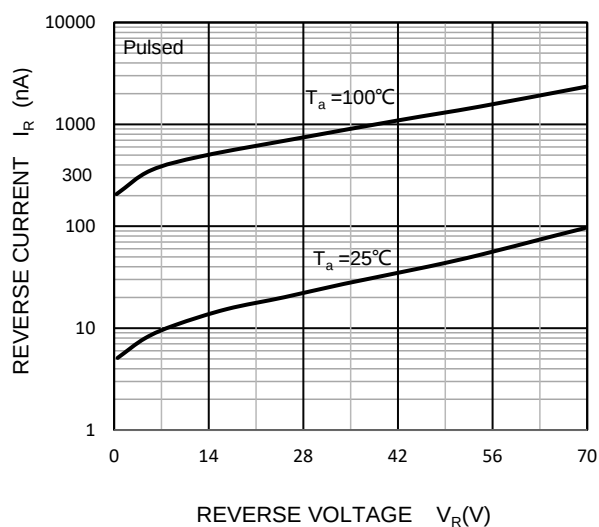
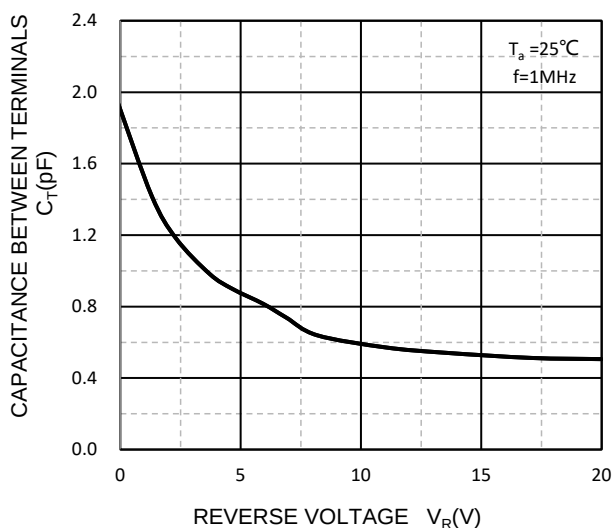
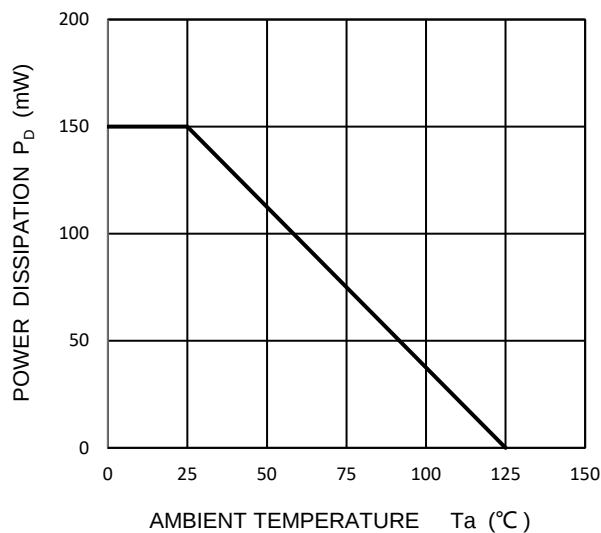
Symbol	Parameter	Limit	Unit
V_{RRM}	Peak Repetitive Peak Reverse Voltage	70	V
V_{RWM}	Working Peak Reverse Voltage		
V_R	DC Blocking Voltage		
I_{FM}	Forward Continuous Current	70	mA
I_{FSM}	Non-repetitive Peak Forward Surge Current @ $t=8.3ms$	100	mA
P_D	Power Dissipation	150	mW
$R_{\theta JA}$	Thermal Resistance Junction to Ambient	667	°C/W
T_J	Operating Junction Temperature Range	-40~+125	°C
T_{STG}	Operation Junction and Storage Temperature Range	-55~+150	°C

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

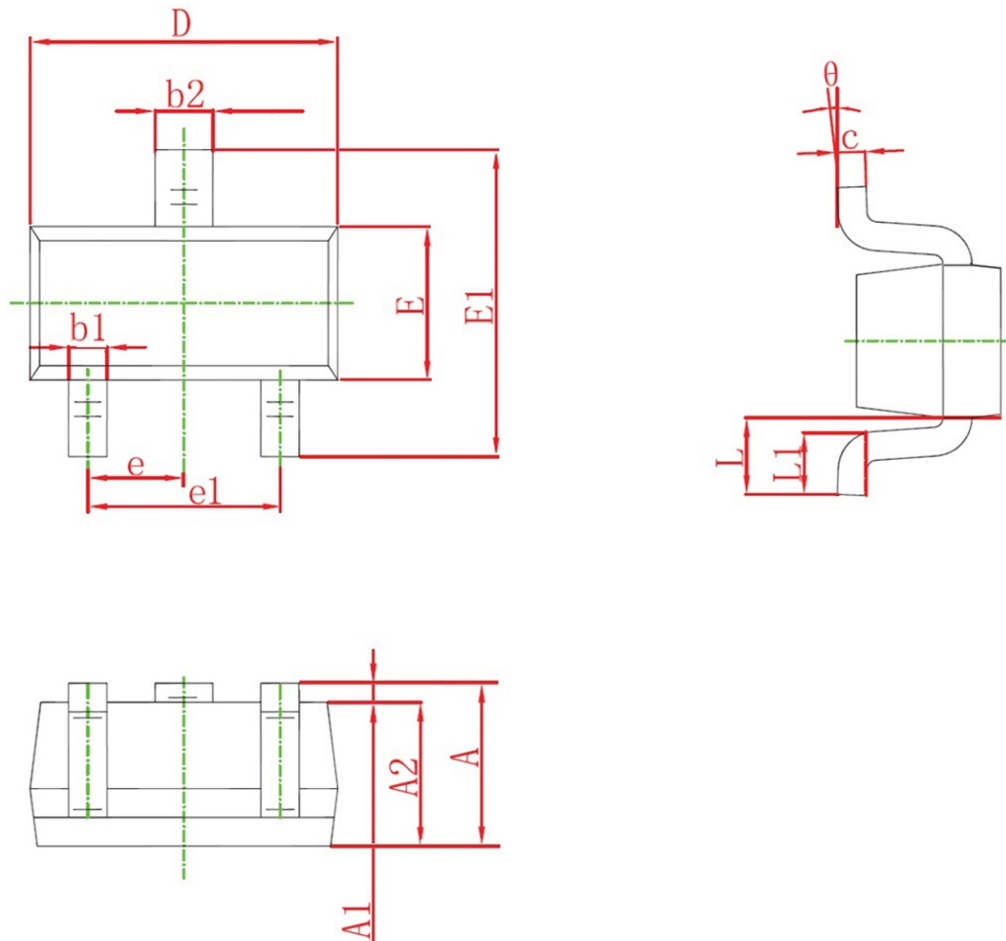
Symbol	Parameter	Condition	Min	Typ	Max	Unit
$V_{(BR)}$	Reverse breakdown voltage	$I_R=10\mu A$	70	--	--	V
V_F	Forward voltage	$I_F=1mA$	--	--	410	mV
		$I_F=15mA$	--	--	1000	mV
I_R	Reverse current	$V_R=50V$	--	--	100	nA
C_D	Diode capacitance	$V_R=0, f=1MHz$	--	--	2	pF
t_{rr}	Reverse recovery time	$I_F=I_R=10mA,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

Ordering Information (Example)

Type	Package	Marking	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
BAS70T	SOT-523	7C	3,000	45,000	180,000	7"reel
BAS70-04T	SOT-523	7D	3,000	45,000	180,000	8"reel
BAS70-05T	SOT-523	7E	3,000	45,000	180,000	7"reel
BAS70-06T	SOT-523	7F	3,000	45,000	180,000	7"reel

Typical Operating Characteristics
Forward Characteristics

Reverse Characteristics

Capacitance Characteristics

Power Derating Curve


SOT-523 Package information



Symbol	Dimensions in Millimeters(mm)		Dimensions In Inches	
	Min	Max	Min	Max
A	0.700	0.900	0.028	0.035
A1	0.000	0.100	0.000	0.004
A2	0.700	0.800	0.028	0.031
b1	0.150	0.250	0.006	0.010
b2	0.250	0.350	0.010	0.014
c	0.100	0.200	0.004	0.008
D	1.500	1.700	0.059	0.067
E	0.700	0.900	0.028	0.035
E1	1.450	1.750	0.057	0.069
e	0.500TYP		0.020TYP	
e1	0.900	1.100	0.035	0.043
L	0.400REF		0.016REF	
L1	0.260	0.460	0.010	0.018
θ	0°	8°	0°	8°