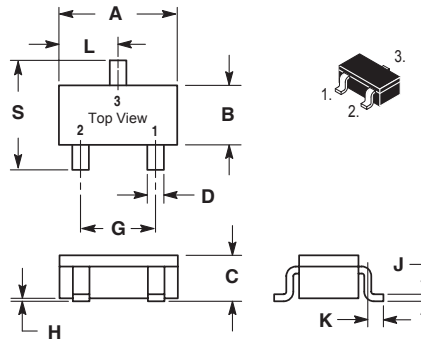


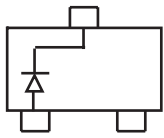
RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

**FEATURES**

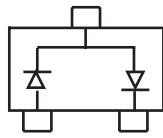
- Low Turn-on voltage
- Fast switching



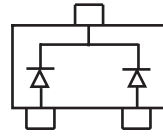
SOT-523		
Dim	Min	Max
A	1.50	1.70
B	0.78	0.82
C	0.80	0.82
D	0.28	0.32
G	0.90	1.10
H	0.00	0.10
J	0.10	0.20
K	0.35	0.41
L	0.49	0.51
S	1.50	1.70
All Dimension in mm		



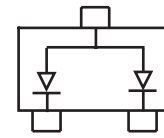
BAS70T Marking: 7C



BAS70-04T Marking: 7D



BAS70-05T Marking: 7E



BAS70-06T Marking: 7F

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Rating 25°C ambient temperature unless otherwise specified.

TYPE NUMBER	SYMBOL	VALUES	UNITS
Peak Repetitive Peak reverse voltage	$V_{RRM}$	70	V
Working Peak Reverse Voltage	$V_{RWM}$		
DC Blocking Voltage	$V_R$		
Forward Continuous Current	$I_{FM}$	70	mA
Non-Repetitive Peak Forward Surge Current @ t = 1.0s	$I_{FSM}$	100	A
Power Dissipation	$P_D$	150	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	833	°C/W
Storage temperature	$T_{STG}$	-65~125	°C

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Rating 25°C ambient temperature unless otherwise specified.

PARAMETERS	SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
Reverse breakdown voltage	$V_{(BR)R}$	$I_R = 10\mu A$	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	$C_D$	$V_R = 0, f = 1MHz$		2	pF
Reverses recovery time	$t_{rr}$	$I_F = I_R = 10mA, I_{rr} = 0.1 \times I_R,$ $R_L = 100\Omega$		5	nS

**RATINGS AND CHARACTERISTIC CURVES**

