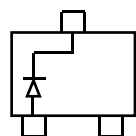


## Plastic-Encapsulate Diodes

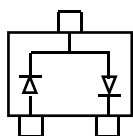
SCHOTTKY BARRIER DIODE

### FEATURES

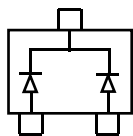
- Low Turn-on Voltage
- Fast Switching



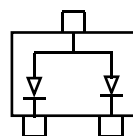
BAS70T Marking: 7C



BAS70-04T Marking: 7D

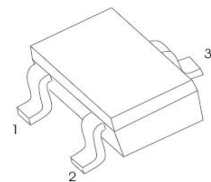


BAS70-05T Marking: 7E



BAS70-06T Marking: 7F

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### MARKING:

BAS70T	BAS70-04T	BAS70-05T	BAS70-06T

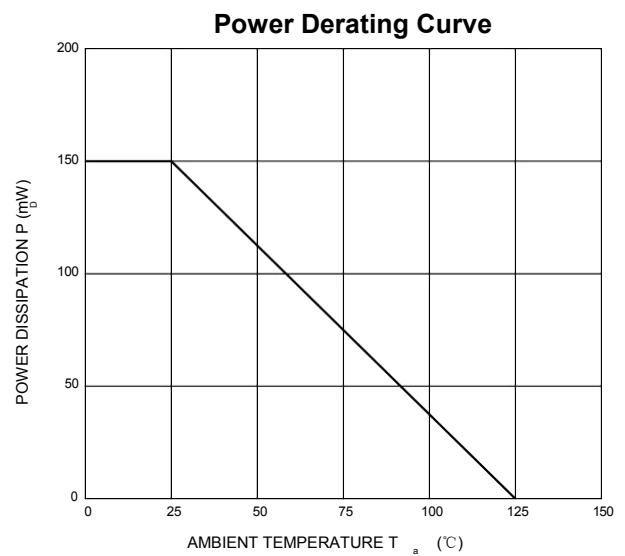
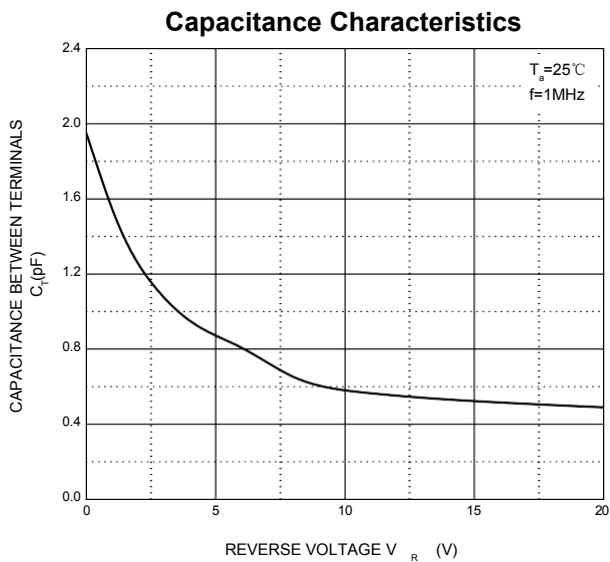
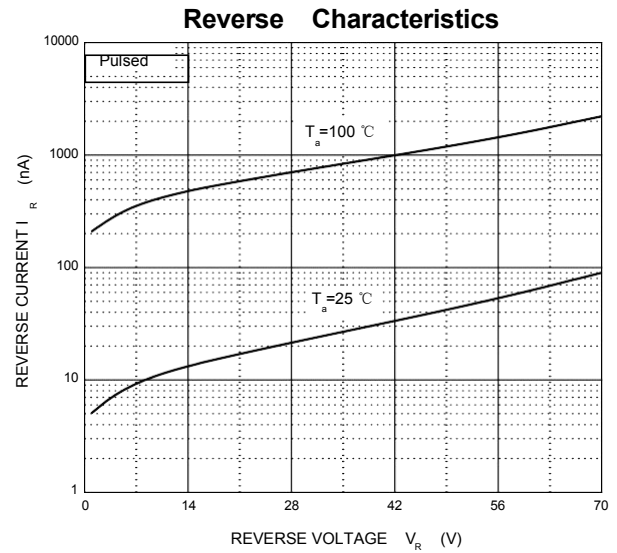
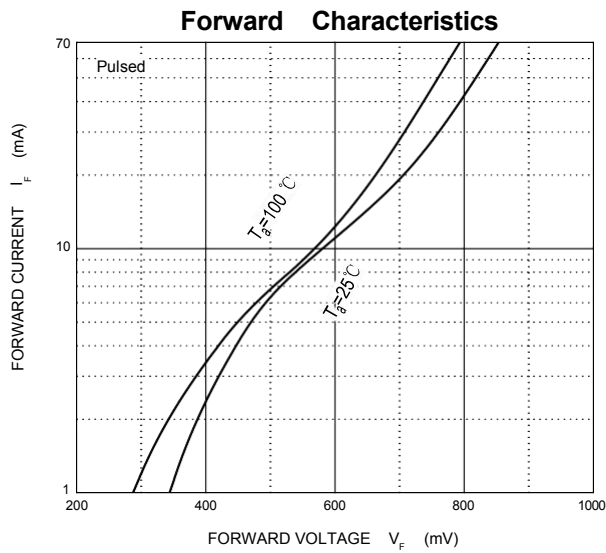
### Maximum Ratings @Ta=25°C

Parameter	Symbol	Limit	Unit
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 = 8.3ms	$I_{FSM}$	100	mA
Power Dissipation	$P_D$	150	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	667	°C/W
Junction temperature	$T_J$	125	°C
Storage Temperature	$T_{STG}$	-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	$C_D$	$V_R=0, f=1MHz$		2	pF
Reverse recovery time	$t_{rr}$	$I_F=I_R=10mA, I_{rr}=0.1I_R,$ $R_L=100\Omega$		5	ns

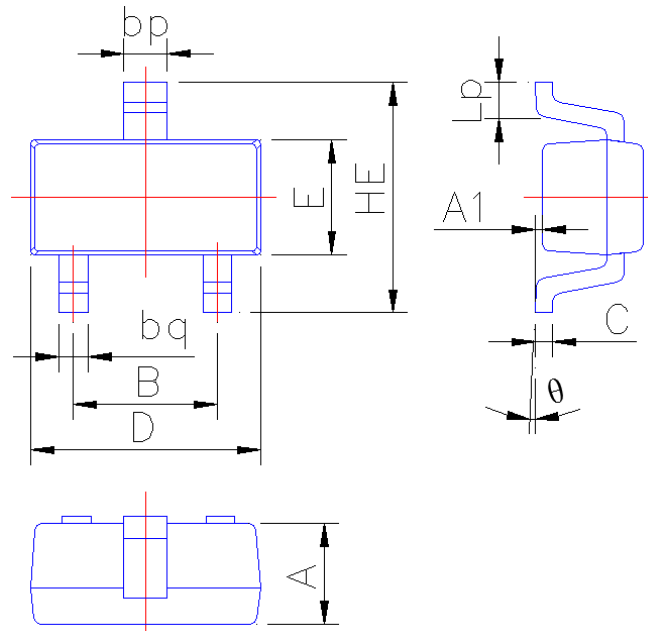
## Typical Characteristics



## PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT-523



Symbol	Dimension in Millimeters	
	Min	Max
A	0.60	0.80
A1	0.010	0.100
B	0.95	1.05
bp	0.26	0.40
bq	0.16	0.30
C	0.09	0.15
D	1.50	1.70
E	0.70	0.85
HE	1.45	1.75
Lp	0.16	0.36
$\theta$	0°	5°