

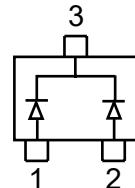


## Features

- Forward Continuous Current:  $I_F = 70\text{mA}$
- Power Dissipation of 200mW



**SOT-23**



## Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
BAS7005E6327HTSA1	SOT-23	75	3000

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

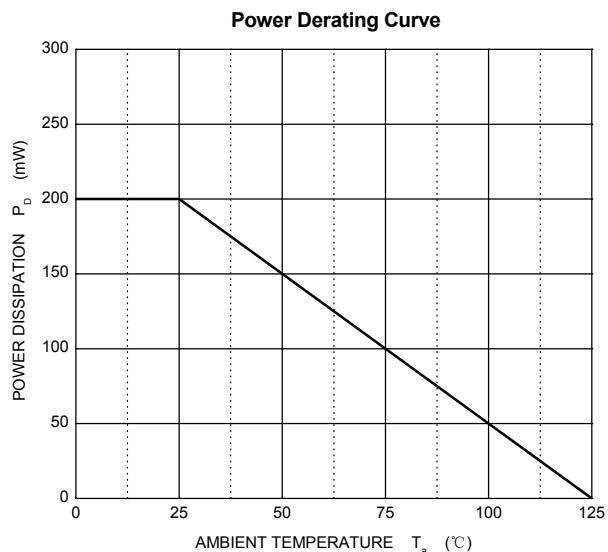
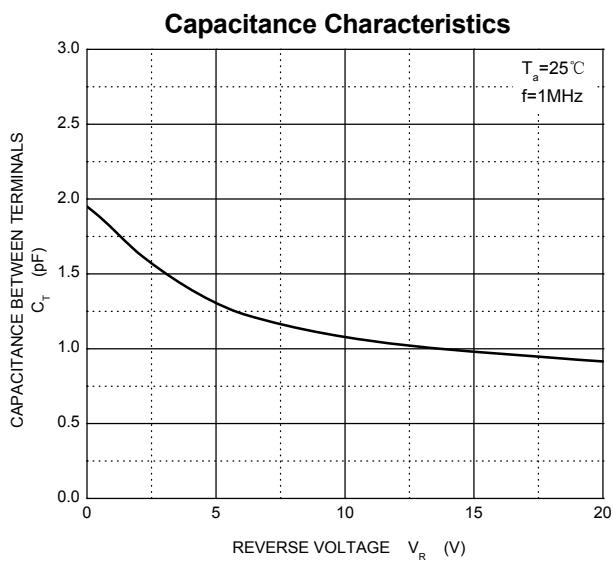
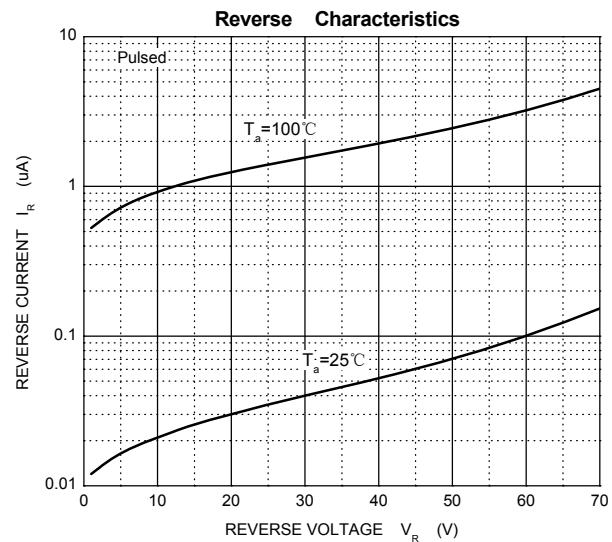
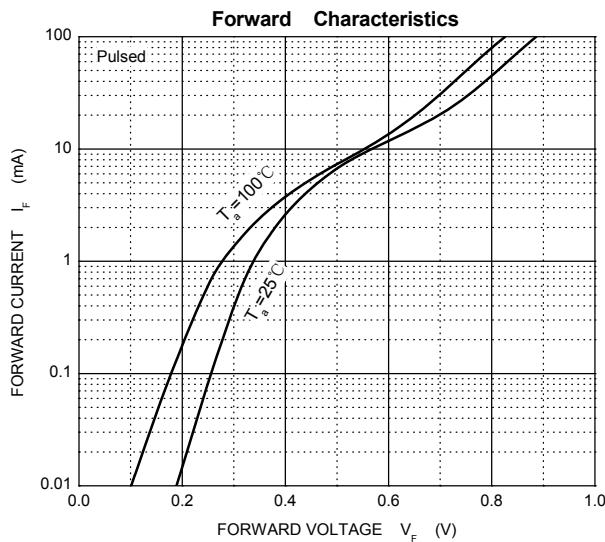
Symbol	Parameter	Value	Unit
$V_R$	DC Voltage	70	V
$I_F$	Forward Continuous Current	70	mA
$I_{FSM}$	Non-Repetitive Peak Forward Surge Current @ $t = 8.3\text{ms}$	100	mA
$P_D$	Power Dissipation	200	mW
$R_{\theta JA}$	Thermal Resistance Junction to Ambient	500	$^\circ\text{C/W}$
$T_J$	Junction Temperature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

## Electrical Characteristics ( $T_a=25^\circ\text{C}$ unless otherwise specified)

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

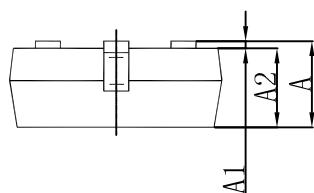
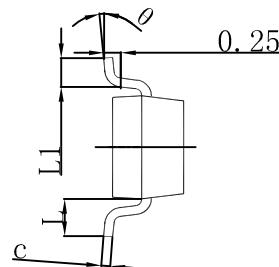
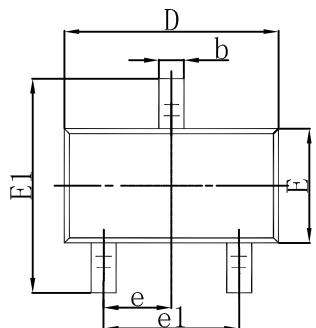


## Typical Characteristics



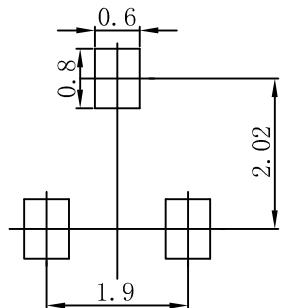


### SOT-23 Package Outline Dimensions



Symbol	Dimensions In Millimeters		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
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
e	0.950 TYP		0.037 TYP	
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
$\theta$	0°	8°	0°	8°

### SOT-23 Suggested Pad Layout



#### Note:

1. Controlling dimension: in millimeters.
2. General tolerance:  $\pm 0.05$ mm.
3. The pad layout is for reference purposes only.



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