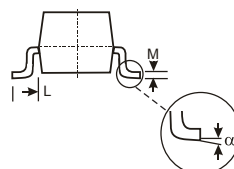
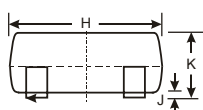
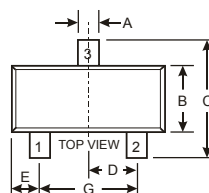


Features

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

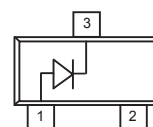
DEVICE	MARKING	TYPE
BAS70	73	Single
BAS70-04	74	Dual
BAS70-05	75	Dual
BAS70-06	76	Dual



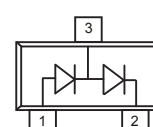
SOT-23		
Dim	Min	Max
A	0.37	0.51
B	1.20	1.40
C	2.30	2.50
D	0.89	1.03
E	0.45	0.60
G	1.78	2.05
H	2.80	3.00
J	0.013	0.10
K	0.903	1.10
L	0.45	0.61
M	0.085	0.180
α	0°	8°
All Dimensions in mm		

Maximum Ratings @ $T_A = 25^\circ\text{C}$ unless otherwise specified

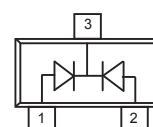
Parameter	Symbol	Limits	Unit
DC Voltage	V_R	70	V
Forward Continuous Current	I_F	70	mA
Non-Repetitive Peak Forward Surge Current @ $t = 8.3\text{ms}$	I_{FSM}	100	mA
Power Dissipation	P_D	200	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	500	$^\circ\text{C/W}$
Junction temperature	T_J	-40~+125	$^\circ\text{C}$
Storage temperature range	T_{STG}	-55~+150	$^\circ\text{C}$



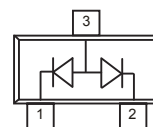
BAS70



BAS70-04



BAS70-05

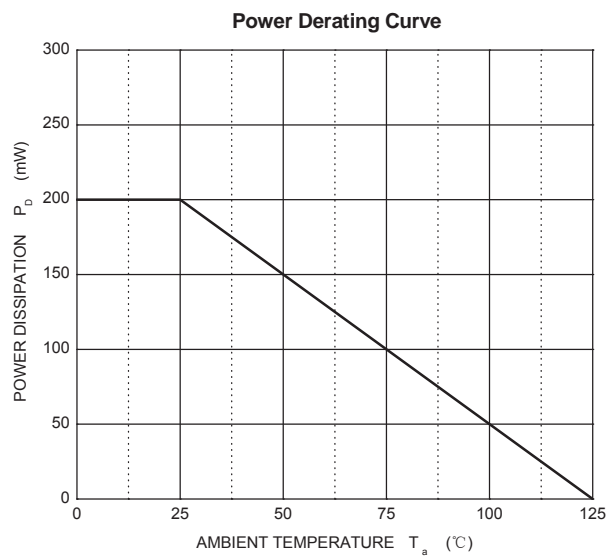
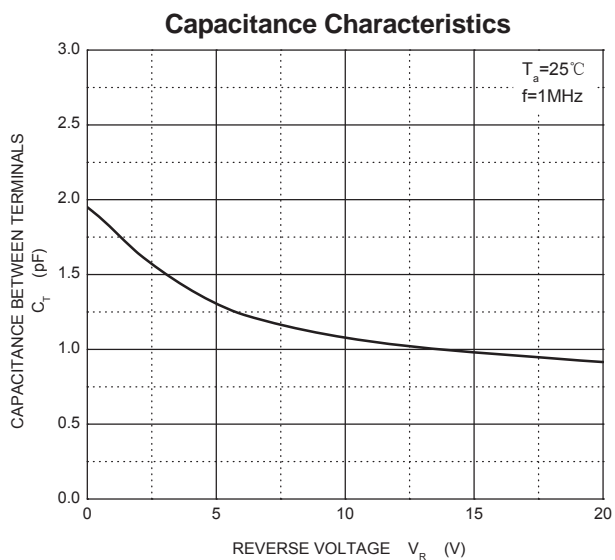
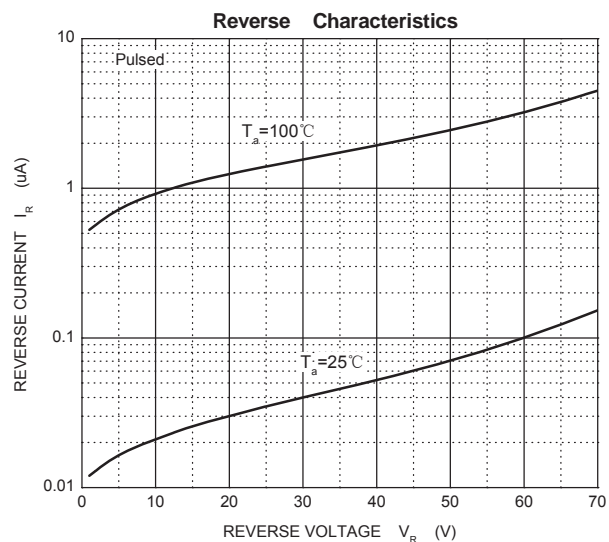
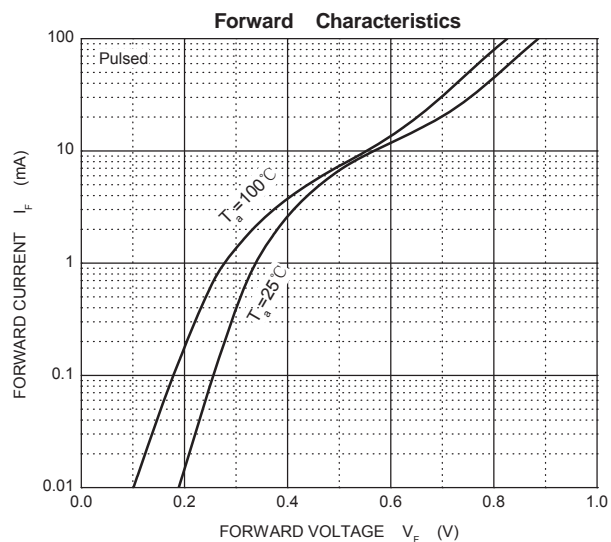


BAS70-06

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 TRANSIENT CHARACTERISTICS



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