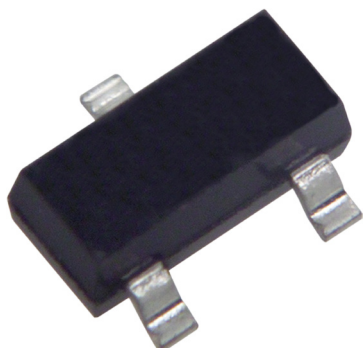


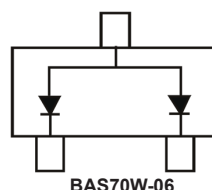
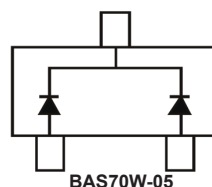
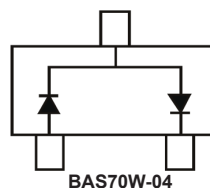
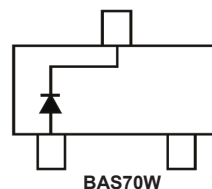


Features:

- Low turn-on voltage
- High breakdown voltage
- Guard ring protected
- Low capacitance
- Very small SMD package

Applications:

- High speed switching applications



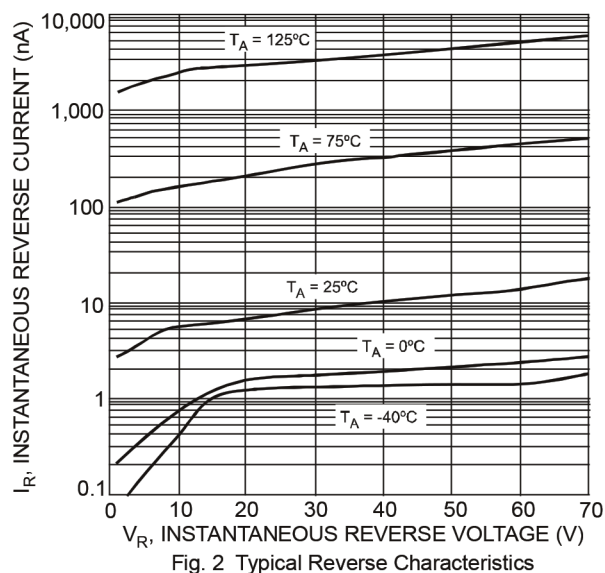
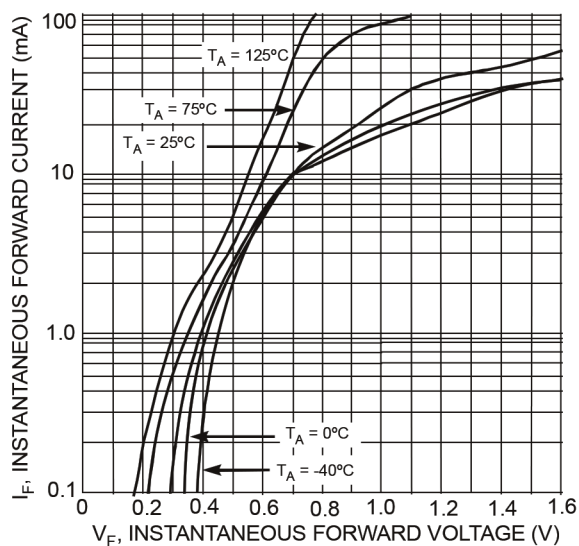
Maximum Rating @ Ta=25°C (unless otherwise specified):

Characteristic	Symbol	Value	Unit
Peak repetitive reverse voltage Working peak reverse voltage DC reverse voltage	V_{RRM} V_{RWM} V_R	70	V
Forward continuous current	I_F	70	mA
Non-repetitive peak forward surge current @ $t_p=1\mu s$	I_{FS}	100	mA
Power dissipation	P_D	200	mW
Junction temperature	T_J	150	°C
Storage temperature range	T_{STG}	-65 to +150	°C

Electrical Characteristics @ Ta=25°C (unless otherwise specified):

Characteristic	Symbol	Min.	Max.	Unit	Test Condition
Reverse breakdown voltage	$V_{(BR)R}$	70	-	V	$I_R = 10A$
Forward voltage	V_F	-	410 1,000	mV	$t_p < 300\mu s, I_F = 1mA$ $t_p < 300\mu s, I_F = 15mA$
Reverse leakage current	I_R	-	100	nA	$t_p < 300\mu s, V_R = 50V$
Junction capacitance	C_J	-	2	pF	$V_R = 0V, f = 1MHz$
Reverse recovery time	t_{rr}	-	5	ns	$I_F = I_R = 10mA$ $R_L = 100\Omega$

Typical Characteristics @ Ta=25°C (unless otherwise specified):



Typical Characteristics @ $T_a=25^\circ\text{C}$ (unless otherwise specified):

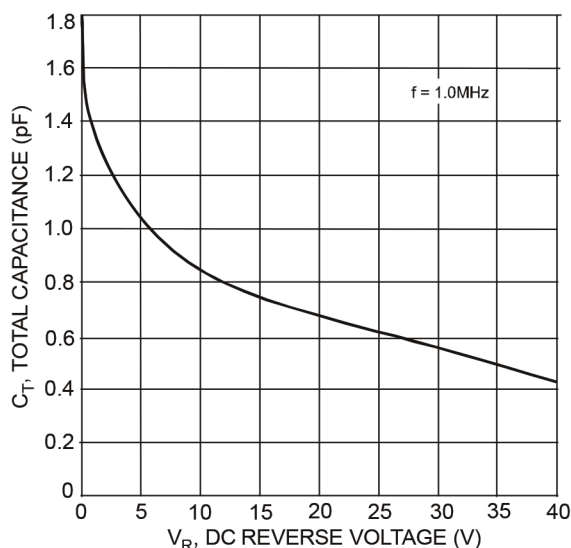


Fig. 3 Total Capacitance vs. Reverse Voltage

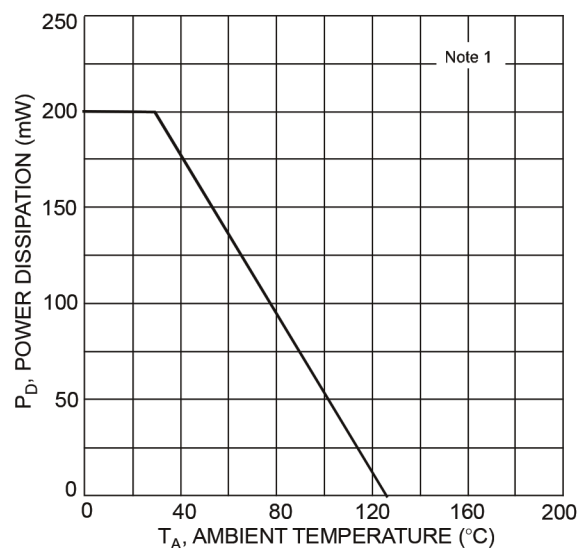
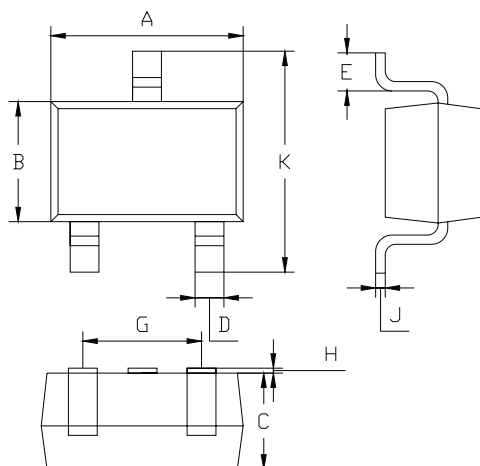


Fig. 4 Power Derating Curve, Total Package

Package Outline

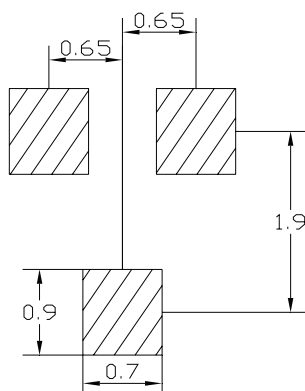
Plastic Surface Mounted Package



SOT-323		
Dim	Min	Max
A	1.8	2.2
B	1.15	1.35
C	1 Typical	
D	0.15	0.35
E	0.25	0.4
G	1.2	1.4
H	0.02	0.1
J	0.1 Typical	
K	2.1	2.3

Dimensions : Millimetres

Soldering Footprint



Dimensions : Millimetres

Part Number Table

Description	Part Number
Diode, Schottky, 70V, SOT323	BAS70W
Diode, Dual Schottky, 70V, SOT323	BAS70W-04
	BAS70W-05
	BAS70W-06

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