

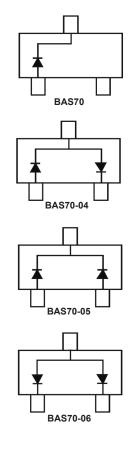


Features:

- Low turn-on voltage
- Fast switching
- · Ultra-small surface mount package
- · PN Junction guard ring for transient and ESD protection
- Ultra small surface mount package

Applications:

- · High speed switching applications
- Circuit protecting
- Voltage clamping



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 =1µs	I _{FS}	100	mA
Power dissipation	P _D	200	mW
Thermal resistance, junction to ambient air	R _{thJA}	625	°C/W
Junction temperature	T _J	150	°C
Storage temperature range	T _{STG}	-65 to +150	°C

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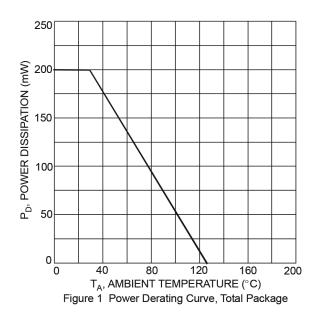


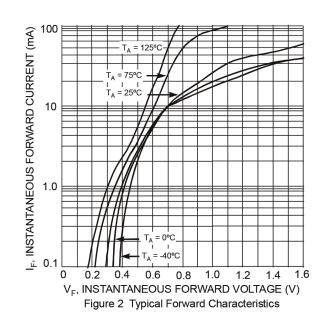


Electrical Characteristics @ Ta=25°C (unless otherwise specified):

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 <300µs, I_p =1mA t_p <300µs, I_p =15mA
Reverse leakage current	I _R	-	100	nA	t _P <300μs, V _R =50V
Junction capacitance	CJ	-	2	pF	V _R =0V, f=1MHz
Reverse recovery time	t _{rr}	-	5	ns	$I_F = I_R = 10 \text{mA}$ $R_L = 100 \Omega$

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

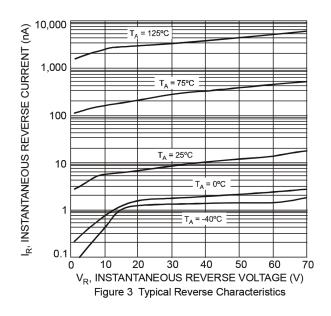








Typical Characteristics @ Ta=25°C (unless otherwise specified):



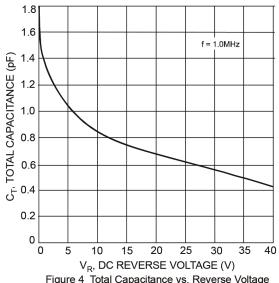
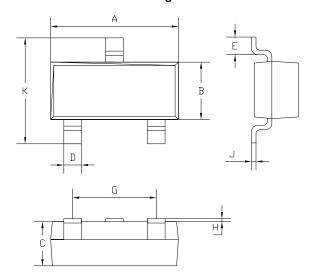


Figure 4 Total Capacitance vs. Reverse Voltage

Package Outline

Plastic Surface Mounted Package



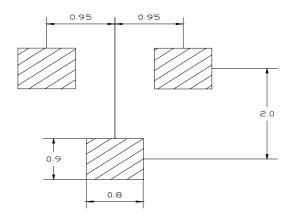
SOT-23				
Dim	Min	Max		
А	2.85	2.95		
В	1.25	1.35		
С	1 Typical			
D	0.37	0.43		
E	0.35	0.48		
G	1.85	1.95		
Н	0.02	0.1		
J	0.1 Typical			
K	2.35	2.45		

Dimensions: Millimetres





Soldering Footprint



Dimensions: Millimetres

Part Number Table

Description	Part Number	
Diode, Schottky, 70V, SOT23	BAS70	
	BAS70-04	
Diode, Dual Schottky, 70V, SOT23	BAS70-05	
	BAS70-06	

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