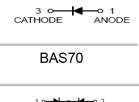
Surface Mount Schottky Barrier Diodes





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SOT-23

Features:

- Low Turn-On Voltage
- Fast Switching
- PN Junction Guard Ring for Transient And BAS70 BAS70-04 ESD Protection
- Ultra-Small Surface Mount Package
- Also Available in Lead Free Version

Applications:

- High speed switching applications.
- Circuit protecting : SOT-23
- Voltage clamping

Maximum Ratings:

T_A = 25°C unless otherwise specified.

Characteristic	Symbol	Limits	Unit
RMS reverse voltage	VR(RMS)	49	V
Repetitive peak reverse voltage Working peak reverse voltage Diode reverse voltage	Vrrm Vrwm Vr	70	V
Forward continuous current	lf	70	mA
Non-Repetitive peak forward surge current at $t_{\rm p}{<}1s$	IFSM	100	mA
Power dissipation	PD	200	mW
Thermal resistance, junction to ambient air	Reja	625	°C/W
Junction and storage temperature range	Tj, Tstg	-65 to +150	°C



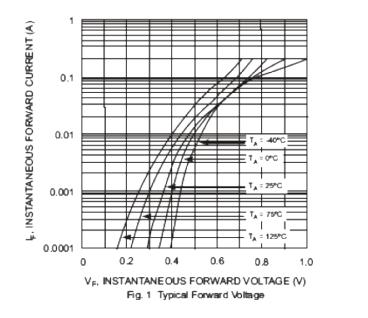
Electrical Characteristics:

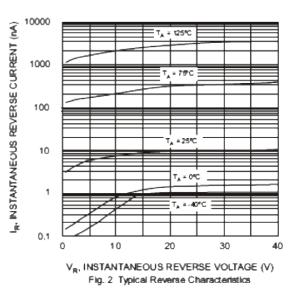
T_A = 25°C unless otherwise specified.

Characteristic	Symbol	Test conditions	Min.	Max.	Unit
Reverse breakdown voltage	V(BR)R	I _(BR) = 10μΑ	70	-	V
Reverse leakage current	lr	t⊵<300µs, V ⊵=50 V	-	100	nA
Forward voltage	VF	t⊵ <300µs, I⊧=1mA t⊵ <300µs, I⊧=15mA	-	410 1,000	mV
Junction capacitance	Cj	V _R =0V, f=1MHz	-	2	pF
Reverse recovery time	trr	I⊧=IR=10mA to IR=1mA, R∟=100Ω	-	5	nS

Typical Characteristics:

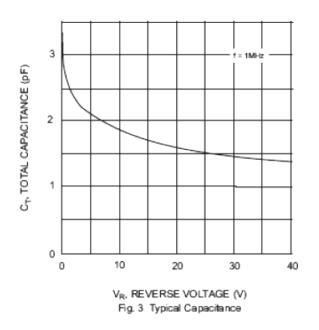
T_A = 25°C unless otherwise specified.

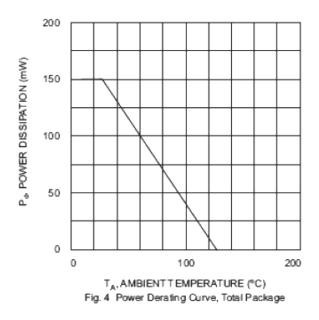




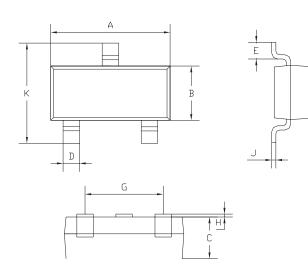


Surface Mount Schottky Barrier Diodes





Package Outline: Plastic surface mounted package



SOT-23				
Min.	Max.			
2.85	2.95			
1.25	1.35			
1 Тур.				
0.37	0.43			
0.35	0.48			
1.85	1.95			
0.02	0.1			
0.1 Typ.				
2.35	2.45			
	Min. 2.85 1.25 1 T 0.37 0.35 1.85 0.02 0.1			

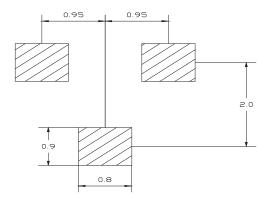
Dimensions : Millimetres



Surface Mount Schottky Barrier Diodes

multicomp PRO

Soldering Footprint:



Package Information:

Device	Package	Shipping
BAS70-05-7-F BAS70-7-F	SOT-23	3,000 / Tape & Reel

Dimensions : Millimetres

Part Number Table

Description	Part Number	
Surface Mount Schottky Barrier Diodes	BAS70-05-7-F	
	BAS70-7-F	

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