multicomp PRO



Features:

- Fast Switching Speed
- Surface Mount Package Ideally Suited for • Automatic Insertion
- For General Purpose Switching Applications •
- · High Conductance



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Applications: High speed switching application

SOT-23

Max. Rating @ TA = 25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Repetitive peak reverse voltage	Vrm	85	V
DC reverse Voltage	VR	75	V
Forward continuous current	lf	250	mA
Non-Repetitive peak forward surge current @t=1.0µs	IFSM	4.5	А
Power dissipation Ts = 54°C	PD	370	mW
Thermal resistance junction to ambient air	Reja	375	°C/W
Operating junction temperature range	TJ	150	°C
Storage temperature range	Тята	-65 to +150	°C

Electrical Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	Min.	Тур.	Max.	Unit	
Reverse breakdown voltage	V(br)r	75	-	-	V	Ir=100µA
Forward voltage	VF	-	-	0.715 0.855 1 1.25	V	IF = 1mA IF = 10mA IF = 50mA IF = 150mA
Reverse leakage current	lR	-	-	1	μA	VR = 70V
Junction capacitance	Cj	-	-	2	pF	VR =0V, f = 1MHz
Reverse recovery time	trr	-	-	6	ns	IF = IR = 10mA, RL=100Ω

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Typical Characteristics @ TA=25°C unless otherwise specified



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Plastic surface mounted package



SOT-23				
Dim	Min	Max		
А	2.7	3.1		
В	1.1	1.5		
С	1 Typical			
D	0.4 Typical			
E	0.35	0.48		
G	1.8	2		
н	0.02	0.1		
J	0.1 Typical			
К	2.2	2.6		
All Dimensions in mm				

Soldering Footprint



Package Information

Device	Package	Shipping
BAS16-7-F	SOT-23	3,000 / Tape & Reel

Part Number Table

Description	Part Number
Surface Mount Switching Diode	BAS16-7-F

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