multicomp

# Surface Mount Switching Diode multicomp

#### · Fast switching speed High conductance

Features:

- For general purpose switching applications
- · Surface mount package ideally suited for automatic insertion

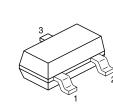
### **Applications:**

· For general purpose switching applications

## **Maximum Ratings**

Parameter	Symbol	Value	Unit	
Non Repetitive Peak Reverse Voltage	V <sub>RM</sub>	85	5 V	
Diode Reverse Voltage	V <sub>R</sub>	75	V	
Forward Continuous Current	I <sub>F</sub>	250	mA	
Forward Surge Current (t=1µS)	I <sub>ES</sub>	4.5	А	
Power Dissipation	P <sub>D</sub>	250	mW	
Junction Temperature	Τ <sub>j</sub>	150	°C	
Storage Temperature Range	T <sub>stg</sub>	-65 to +150	0	

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#### **Pin Configuration:**

- 1. Base
- 2. Emitter
- 3. Collector







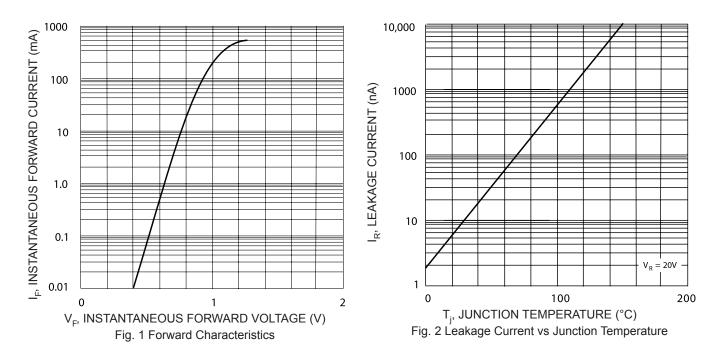


Parameter	Symbol	Test Conditions	Min.	Тур.	Max.	Unit
Reverse Breakdown Voltage	V <sub>(BR)R</sub>	Ι <sub>R</sub> =100μΑ	75			V
Reverse Voltage Leakage Current	I <sub>R</sub>	V <sub>R</sub> =70V V <sub>R</sub> =75V			1 50	μA
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =1mA I <sub>F</sub> =10mA I <sub>F</sub> =50mA I <sub>F</sub> =150mA			715 855 1,000 1,250	mV
Diode Capacitance	C <sub>D</sub>	V <sub>R</sub> =0V, f=1MHz			2	pF
Reverse Recovery Time	t <sub>rr</sub>	I <sub>F</sub> =IR=10mA, R <sub>L</sub> =100Ω			6	nS

## Electrical Characteristics ( $T_a = 25^{\circ}C$ unless otherwise noted)

# Electrical Characteristics: T<sub>amb</sub>=25°C unless otherwise specified

**Ratings & Characteristic Curves** 

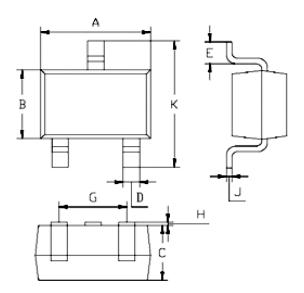


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## Package Outline

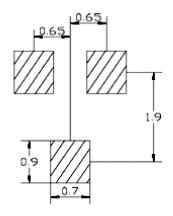
Plastic surface mounted package



Dimensions	Min.	Max.	
А	1.8	2.2	
В	1.15	1.35	
С	1 Typical		
D	0.15	0.35	
E	0.25	0.4	
G	1.2	1.4	
Н	0.02	0.1	
J	0.1 Typical		
К	2.1	2.3	

**Dimensions : Millimetres** 

## **Soldering Footprint**



**Dimensions : Millimetres** 

## Part Number Table

Description	Part Number		
Diode, Switching, 75V, SOT323	BAS16W		

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