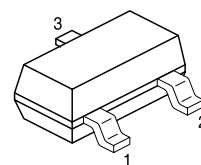


Surface Mount Switching Diode



Features:

- Fast switching speed
- High conductance
- For general purpose switching applications
- Surface mount package ideally suited for automatic insertion

Applications:

- For general purpose switching applications

Pin Configuration:

1. Base
2. Emitter
3. Collector

Maximum Ratings

Parameter	Symbol	Value	Unit
Non Repetitive Peak Reverse Voltage	V_{RM}	85	V
Diode Reverse Voltage	V_R	75	
Forward Continuous Current	I_F	250	mA
Forward Surge Current ($t=1\mu S$)	I_{ES}	4.5	A
Power Dissipation	P_D	250	mW
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	-65 to +150	

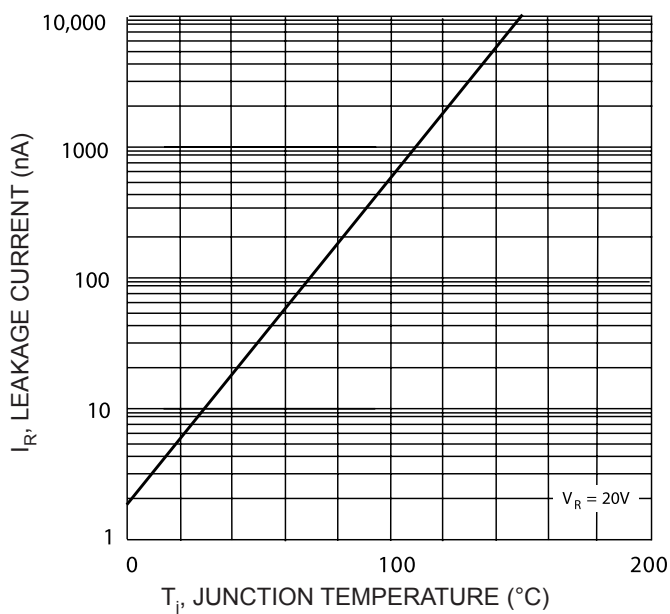
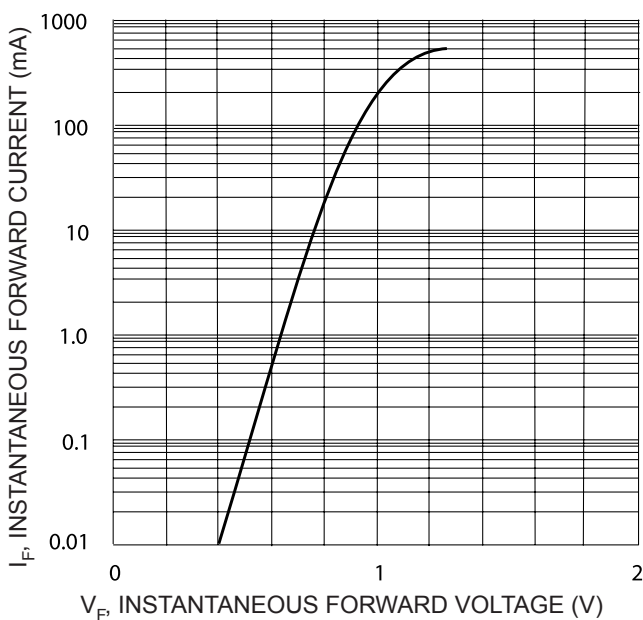
Surface Mount Switching Diode

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

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	$V_{(BR)R}$	$I_R=100\mu\text{A}$	75			V
Reverse Voltage Leakage Current	I_R	$V_R=70\text{V}$ $V_R=75\text{V}$			1 50	μA
Forward Voltage	V_F	$I_F=1\text{mA}$ $I_F=10\text{mA}$ $I_F=50\text{mA}$ $I_F=150\text{mA}$			715 855 1,000 1,250	mV
Diode Capacitance	C_D	$V_R=0\text{V}$, $f=1\text{MHz}$			2	pF
Reverse Recovery Time	t_{rr}	$I_F=I_R=10\text{mA}$, $R_L=100\Omega$			6	nS

Electrical Characteristics: $T_{amb}=25^\circ\text{C}$ unless otherwise specified

Ratings & Characteristic Curves

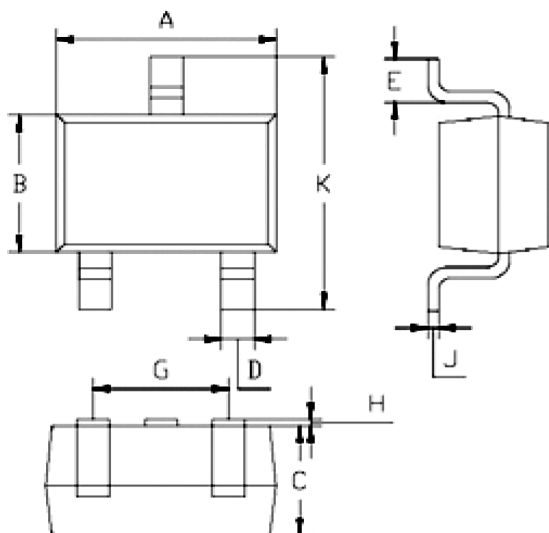


Surface Mount Switching Diode



Package Outline

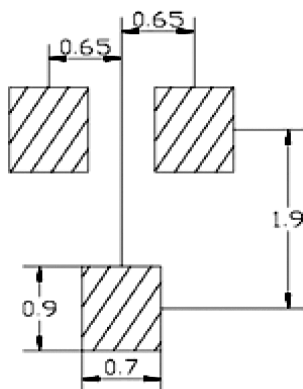
Plastic surface mounted package



Dimensions	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, Switching, 75V, SOT323	BAS16W

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