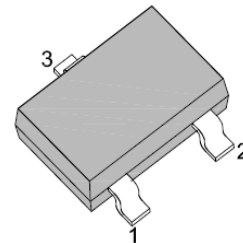


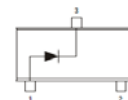
Three Terminals Surface Mount Switching Diode

Features

- Fast Switching Diode
- Electrically Identical to Standard JEDEC
- High Conductance
- Fast Reverse Recovery Time
- Low Forward Voltage
- RoHS Compliant



SOT-323



Mechanical Data

Case:	SOT-323, Plastic Case
Terminals:	Solderable per MIL-STD-202G, Method 208
Weight:	Approx. 0.0052 gram

Maximum Ratings & Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	BAS16WS	Unit	Conditions
	Marking Code	A6		
V_R	Reverse Voltage	75	V	
V_{RRM}	Peak Reverse Voltage	100	V	
V_{RMS}	Maximum RMS Voltage	50	V	
V_{DC}	Maximum DC Blocking Voltage	75	V	
I_{F(AV)}	Average Forward Current	150	mA	
I_{FSM}	Peak Forward Surge Current, Pulse Width=1.0μs	2.0	A	
P_D	Power Dissipation above 25°C	200	mW	
V_F	Forward Voltage	0.715	V	I _F =1mA
		0.855		I _F =10mA
		1.0		I _F =50mA
		1.25		I _F =150mA
I_R	Max. Reverse Current	1.0	μA	V _R =75V
		30		V _R =25V, T _J =150° C
		50		V _R =75V, T _J =150° C

Three Terminals Surface Mount Switching Diode

BAS16WS

Symbol	Description	BAS16WS	Unit	Conditions
C_D	Diode Capacitance	2.0	pF	V _R =0V, f=1MHz
T_{rr}	Reverse Recovery Time	6.0	nS	I _F =10mA, I _R =1mA, V _R =6V, R _L =100Ω
R_{thJA}	Maximum Thermal Resistance, Junction to Ambient	640	°C / W	
T_J, T_{STG}	Operating Junction and Storage Temperature Range	-55 to +150	°C	

Typical Characteristics Curves

Fig.1- Forward Power Dissipation Derating Curve

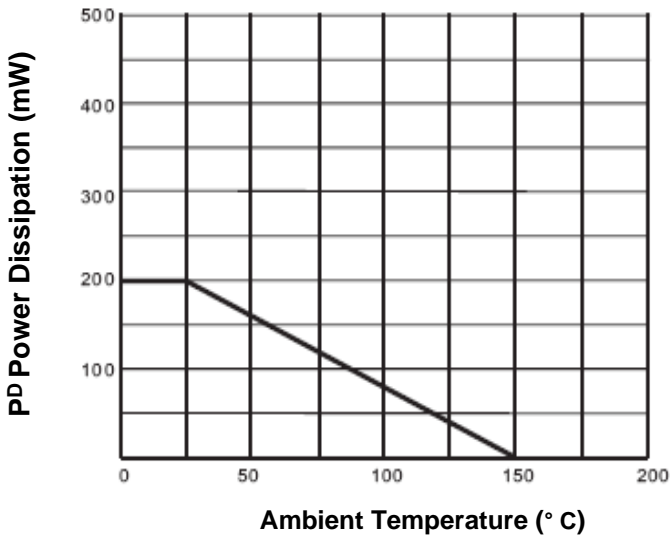


Fig.2- Typical Instantaneous Forward Characteristics

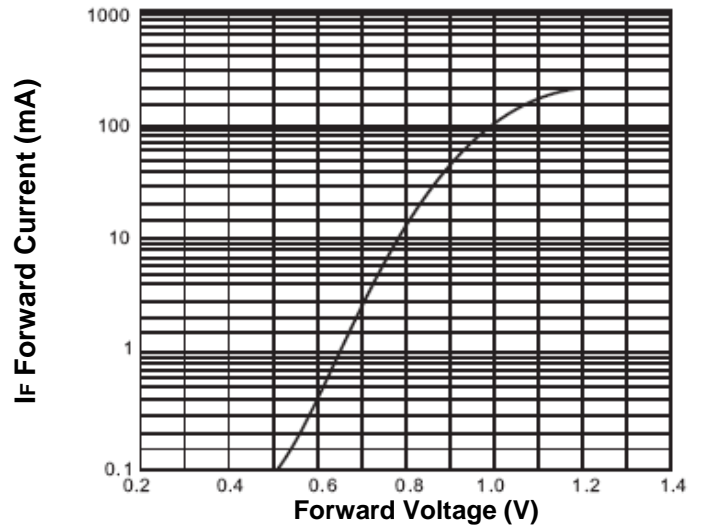
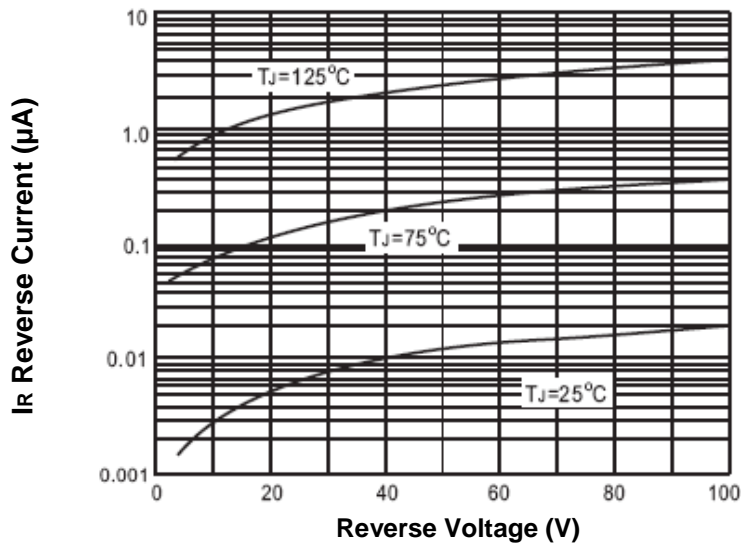


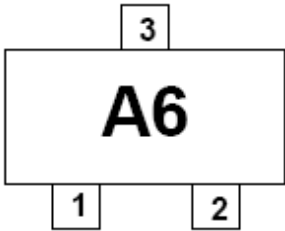
Fig.3- Typical Instantaneous Reverse Characteristics Curve



Three Terminals Surface Mount Switching Diode

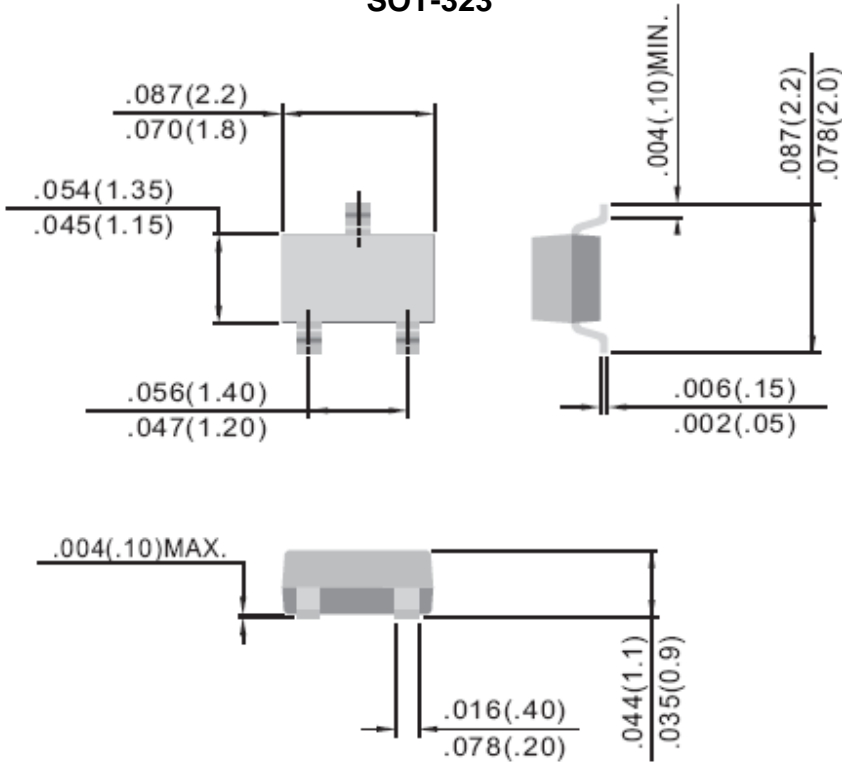
BAS16WS

Marking Information



Dimensions in inch (mm)

SOT-323



Three Terminals Surface Mount Switching Diode

BAS16WS

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