

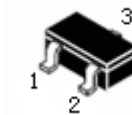
## Surface Mount Switching Diode: BAS16W

### 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



SOT-323

### Ordering Information

Type No.	Marking:	Package Code:
BAS16W	A2	SOT-323

### Maximum Ratings & Characteristics: Tamb=25°C unless otherwise specified

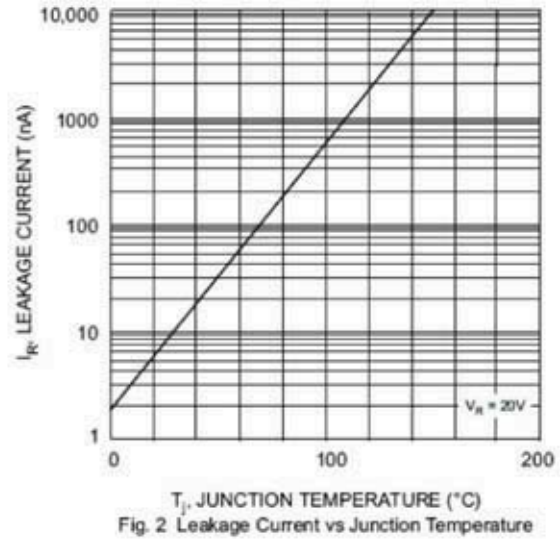
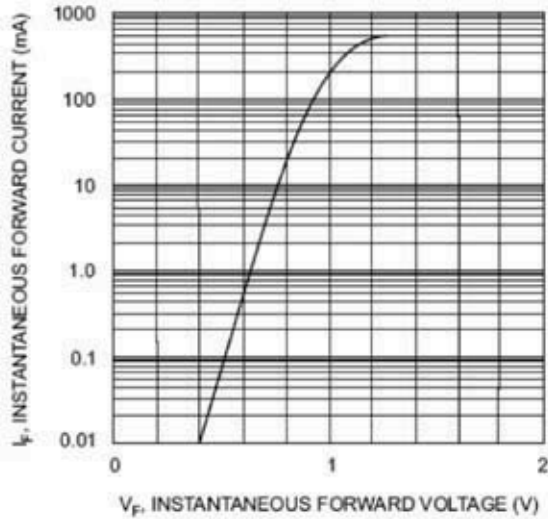
Parameter:	Symbol:	Value:	Unit:
Non Repetitive Peak Reverse Voltage	$V_{RM}$	85	V
Diode Reverse Voltage	$V_R$	75	V
Forward Continuous Current	$I_F$	250	mA
Forward Surge Current (t=1μS)	$I_{FS}$	4.5	A
Power Dissipation	$P_d$	250	mW
Junction Temperature	$T_j$	150	°C
Storage Temperature Range	$T_{stg}$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

### Electrical Characteristics: Tamb=25°C unless otherwise specified

Parameter:	Symbol:	Test Conditions:	Min:	Typ:	Max:	Unit:
Reverse Breakdown Voltage	$V_{(BR)R}$	$I_R = 100\mu A$	75			V
Reverse Voltage Leakage Current	$I_R$	$V_R = 70V$ $V_R = 75V$			1 50	$\mu A$
Forward Voltage	$V_F$	$I_F = 1mA$ $I_F = 10mA$ $I_F = 50mA$ $I_F = 150mA$			715 855 1000 1250	mV
Diode Capacitance	$C_D$	$V_R = 0V$ f=1MHz			2	pF
Reverse Recovery Time	$t_{rr}$	$I_F = IR = 10mA$ $R_L = 100\Omega$			6	nS

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

## Ratings & Characteristic Curves



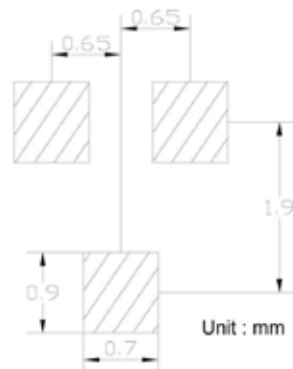
## Package Outline:

Plastic surface mounted package

SOT-323

SOT-323		
Dim	Min	Max
A	1.8	2.2
B	1.15	1.35
C	1.0 Typical	
D	0.15	0.35
E	0.25	0.40
G	1.2	1.4
H	0.02	0.1
J	0.1 Typical	
K	2.1	2.3
All Dimensions in mm		

### SOLDERING FOOTPRINT



### PACKAGE INFORMATION

Device	Package	Shipping
BAS16W	SOT-323	3000/Tape&Reel