

BAS16W

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SURFACE MOUNT FAST SWITCHING DIODE

С

Features

- High Conductance
- Fast Switching
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose and Switching
- Plastic Material UL Recognition Flammability Classification 94V-O

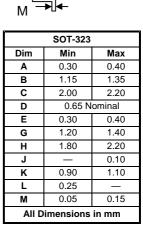
Mechanical Data

- Case: SOT-323, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: See Diagram
- Weight: 0.006 grams (approx.)
- Mounting Position: Any
- Marking: A6



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TOP VIEW



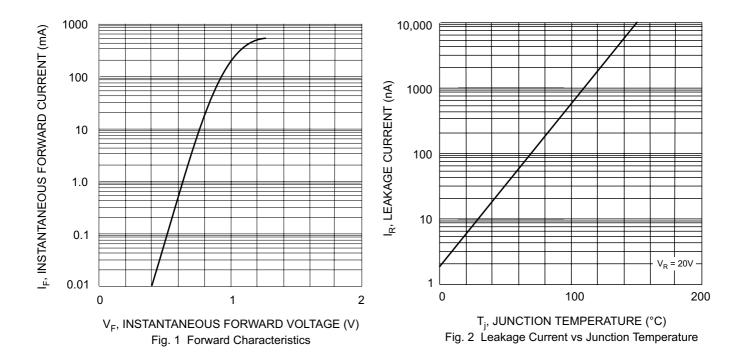
Maximum Ratings @T_A=25°C unless otherwise specified

Characteristic	Symbol	Value	Unit	
Non-Repetitive Peak Reverse Voltage	Vrm	100	V	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	75	V	
Forward Continuous Current (Note 1)	lf	300	mA	
Average Rectified Output Current (Note 1)	lo	150	mA	
Peak Forward Surge Current (Note 1) @ t < 1.0µs	IFSM	2.0	А	
Power Dissipation (Note 1)	Pd	200	mW	
Typical Thermal Resistance, Junction to Ambient Air (Note 1)	RθJA	625	°C/W	
Operating and Storage Temperature Range	Тј, Тѕтс	-65 to +150	°C	

Electrical Characteristics @T_A=25°C unless otherwise specified

Characteristic	Symbol	Min	Max	Unit	Test Condition
Forward Voltage	VF		0.855 1.0	V	@ IF = 10mA @ IF = 50mA
Reverse Leakage Current	IR	_	1.0	μA	@ VR = 75V
Junction Capacitance	Cj	-	2.0	pF	VR = 0V, f = 1.0MHz
Reverse Recovery Time	trr		6.0	nS	$\label{eq:IF} \begin{array}{l} IF=IR=10mA,\\ IRR=0.1\ x\ IR,\ RL=100\Omega \end{array}$

Note: 1. Device mounted on fiberglass substrate 40 x 40 x 1.5mm.



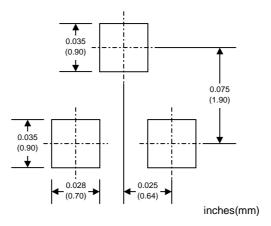
ORDERING INFORMATION

Product No.+	Package Type	Shipping Quantity		
BAS16W-T1	SOT-323	3000/Tape & Reel		
BAS16W-T3	SOT-323	10000/Tape & Reel		

Products listed in **bold** are WTE **Preferred** devices. *T1 suffix refers to a 7" reel. T3 suffix refers to a 13" reel.

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

RECOMMENDED FOOTPRINT



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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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