

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

# **BAS16WX**

### **Features**

- High Conductance
- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- Lead Free Finish/RoHS Compliant("P" Suffix designates RoHS Compliant. See ordering information)
- Halogen free available upon request by adding suffix "-HF"

### **Mechanical Data**

- Marking: A6/T4
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Polarity: Indicated by Cathode Band

#### Maximum Ratings @ 25°C Unless Otherwise Specified

Non-Repetitive Peak Reverse Volt.	V <sub>RM</sub>	85	V
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>		
Working Peak Reverse Voltage	V <sub>RWM</sub>	75	V
DC Blocking Voltage	V <sub>R</sub>		
RMS Reverse Voltage	V <sub>R(RMS)</sub>	53	V
Forward Continuous Current(Note1)	I <sub>FM</sub>	200	mA
Average Rectified Output Current	Io	100	mA
Non-Repetitive Peak @ t<=1.0s	Т	2	٨
Forward Surge Current @ t=10us	<sup>I</sup> FSM	1	A
Power Dissipation(Note 1)	Pd	350	mW
Thermal Resistance(Note 1)	R	315	K/W
Operation/Storage Temp. Range	Tj, T <sub>stg</sub>	-55 to +150	°C

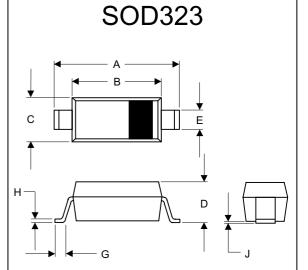
#### Electrical Characteristics @ 25°C Unless Otherwise Specified

		0.715		I⊧=1.0mA
Maximum Forward	Vfm	0.855	V	I <sub>F</sub> =10mA
Voltage Drop		1		I⊧=50mA
		1.25		I⊧=150mA
Maximum Peak	Irм	1.0	uA	V <sub>R</sub> =75V Tj=25°C V <sub>R</sub> =75V Tj=150°C
Reverse Current		50	uA	V <sub>R</sub> =75V Tj=150 <sup>°</sup> C
Junction Capacitance	Cj	2	рF	V <sub>R</sub> =0V, f=1.0MHz
				IF=IR=10mA, Irr=0.1IR,
Reverse Recovery Time	trr	6	ns	R∟=100 OHM

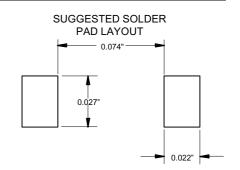
Notes: 1. Valid provided that terminals are kept at ambient temperature

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## High Speed Switching Diode 350mW

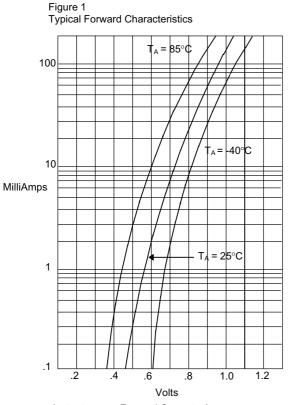


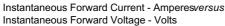
	DIMENSIONS					
DIM	INCHES		MM		NOTE	
	MIN	MAX	MIN	MAX		
Α	.090	.107	2.30	2.70		
В	.063	.071	1.60	1.80		
С	.045	.053	1.15	1.35		
D	.031	.045	0.80	1.15		
Е	.010	.016	0.25	0.40		
G	.004	.018	0.10	0.45		
Н	.004	.010	0.10	0.25		
J		.006		0.15		

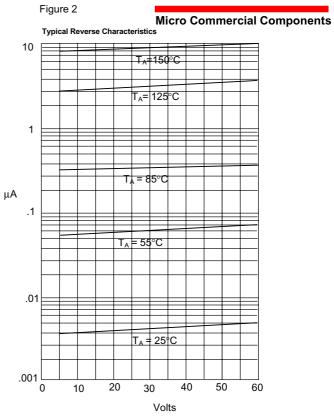


2013/01/01

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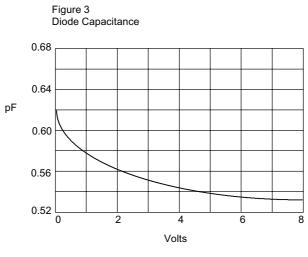




 $\cdot M \cdot C \cdot C \cdot$ 

тм

Instantaneous Reverse Current - MicroAmperes/ersus Reverse Voltage - Volts



Diode Capacitance - pFversus Reverse Voltage - Volts

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### **Ordering Information :**

Device	Packing	
Part Number-TP	Tape&Reel: 3Kpcs/Reel	

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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