

Micro Commercial Components

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BAS16WX

Switching Diode

High Speed 350mW

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

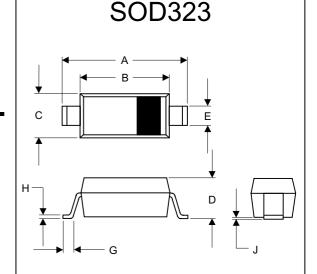
Maximum Ratings @ 25°C Unless Otherwise Specified

Non-Repetitive Peak Reverse Volt.	$V_{_{ m RM}}$	85	V
Peak Repetitive Reverse Voltage	V _{RRM}	7.5	***
Working Peak Reverse Voltage DC Blocking Voltage	$egin{array}{c} V_{ m RWM} \ V_{ m R} \end{array}$	75	V
RMS Reverse Voltage	V _{R(RMS)}	53	V
Forward Continuous Current(Note1)	I_{FM}	200	mA
Average Rectified Output Current	Io	100	mA
Non-Repetitive Peak @ t<=1.0s Forward Surge Current @ t=10us	I_{FSM}	2 1	A
Power Dissipation(Note 1)	Pd	350	mW
Thermal Resistance(Note 1)	R	315	K/W
Operation/Storage Temp. Range	Tj, T _{STG}	-55 to +150	°C

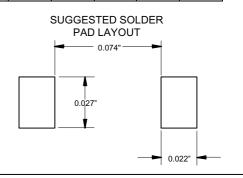
Electrical Characteristics @ 25°C Unless Otherwise Specified

Maximum Forward Voltage Drop	$V_{\sf FM}$	0.715 0.855 1	V	I _F =1.0mA I _F =10mA I _F =50mA
		1.25		I _F =150mA
Maximum Peak Reverse Current	Irm	1.0 50	μA μA	V _R =75V Tj=25°C V _R =75V Tj=150°C
Junction Capacitance	Cj	2	рF	V _R =0V, f=1.0MHz
Reverse Recovery Time	trr	6	ns	I _F =I _R =10mA, I _{rr} =0.1I _R , R _L =100 OHM

1. Valid provided that terminals are kept at ambient temperature



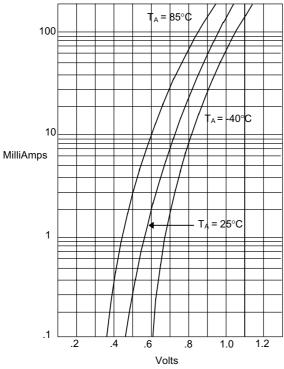
	DIMENSIONS					
DIM	INC	HES	M	1M	NOTE	
	MIN	MAX	MIN	MAX		
Α	.090	.107	2.30	2.70		
В	.063	.071	1.60	1.80		
С	.045	.053	1.15	1.35		
D	.031	.045	0.80	1.15		
Ε	.010	.016	0.25	0.40		
G	.004	.018	0.10	0.45		
Н	.004	.010	0.10	0.25		
J		.006		0.15		



BAS16WX

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Figure 1
Typical Forward Characteristics

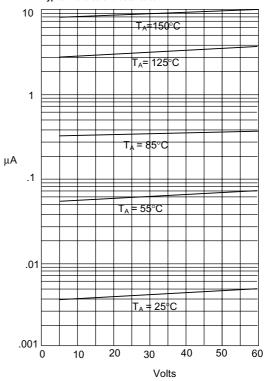


Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts

Figure 2

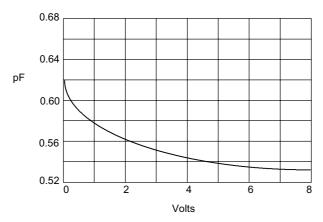
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Typical Reverse Characteristics



Instantaneous Reverse Current - MicroAmperes*versus* Reverse Voltage - Volts

Figure 3 Diode Capacitance



Diode Capacitance - pFversus Reverse Voltage - Volts



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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