

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth

CA 91311

Phone: (818) 701-4933 (818) 701-4939 Fax:

BAS16W

High Speed Switching Diode 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)

Mechanical Data

- Marking: A6, T6
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Polarity: Indicated by Cathode Band

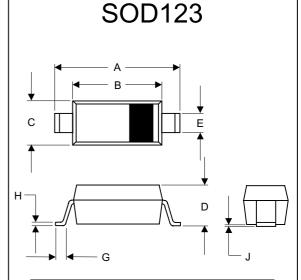
Maximum Ratings @ 25°C Unless Otherwise Specified

Characteristic	Symbol	Value	Unit
Non-Repetitive Peak Reverse Volt.	V _{RM}	85	V
Peak Repetitive Reverse Voltage	VRRM		
Working Peak Reverse Voltage	V_{RWM}	75	V
DC Blocking Voltage	V_R		
RMS Reverse Voltage	V _{R(RMS)}	53	V
Forward Continuous Current(Note1)	IFM	200	mA
Average Rectified Output Current	lo	100	mA
Non-Repetitive Peak @ t<=1.0s Forward Surge Current @ t=10us	lfsм	2 1	A 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

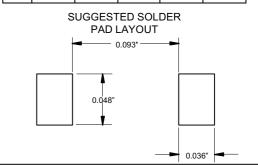
Electrical Characteristics @ 25°C Unless Otherwise Specified

Maximum Forward	V_{FM}	0.715 0.855	٧	I _F =1.0mA I _F =10mA
Voltage Drop		1 1.25		I _F =50mA I _F =150mA
Maximum Peak Reverse Current	lкм	1.0 50		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

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



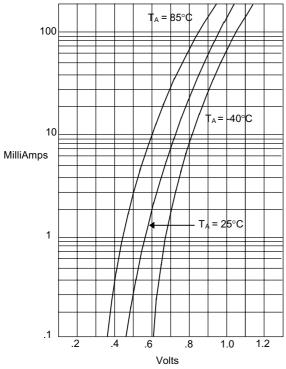
	DIMENSIONS				
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
Α	.140	.152	3.55	3.85	
В	.100	.112	2.55	2.85	
С	.055	.071	1.40	1.80	
D		.053		1.35	
Е	.012	.031	0.30	.78	
G	.006		0.15		
Н		.01		.25	
J		.006		.15	



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Figure 1
Typical Forward Characteristics

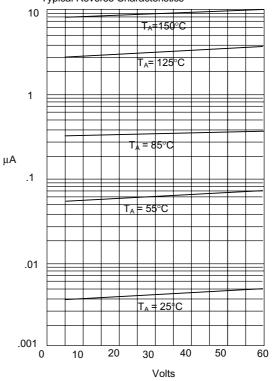


Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts

Figure 2

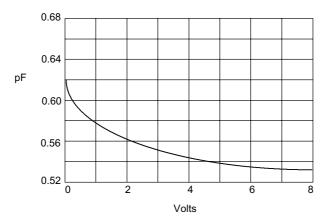
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Typical Reverse Characteristics



Instantaneous Reverse Current - MicroAmperes/ersus Reverse Voltage - Volts

Figure 3 Diode Capacitance



Diode Capacitance - pFversus Reverse Voltage - Volts



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Ordering Information:

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

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