



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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## BAS16X

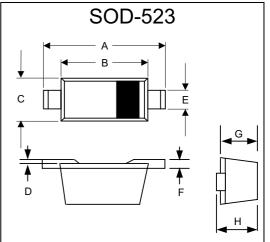
## **Features**

- Lead Free Finish/Rohs Compliant("P"Suffix designates Compliant. See ordering information)
- Ultra-Small Surface Mount Package
- Fast Switching Speed
- For General Purpose Switching Applications
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking: A6
- Halogen free available upon request by adding suffix "-HF"

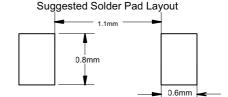
# **Maximum Ratings**

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 635°C/W Junction To Ambient

# 150mW 75Volt Switching Diode



DIMENSIONS								
	INCHES		MM					
DIM	MIN	MAX	MIN	MAX	NOTE			
Α	.059	.067	1.50	1.70				
В	.043	.051	1.10	1.30				
С	.030	.033	0.75	0.85				
D	.001	.003	0.01	0.07				
Е	.010	.014	0.25	0.35				
F	.003	.006	80.0	0.15				
G	.020	.028	0.50	0.70				
Н	.020	.031	0.51	0.77				
Suggested Solder Pad Layout								



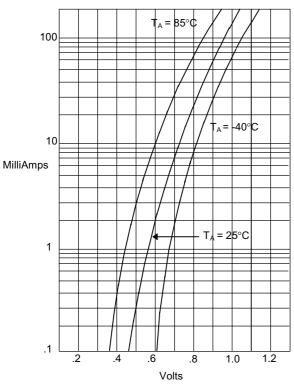
### Electrical Characteristics @ 25°C Unless Otherwise Specified

DC Reverse Voltage	$V_R$	75V	
Reverse breakdown	$V_{(BR)R}$	75V	I <sub>R</sub> =100uA
voltage	, ,		
Forward Current	$I_F$	200mA	
Power Dissipation	$P_{D}$	150mW	
Peak Forward Surge	$I_{FSM}$	500mA	
Current			
Maximum		715mV	$I_F = 1mA$
Instantaneous	$V_{F}$	855mV	$I_F = 10mA;$
Forward Voltage		1000mV	$I_F = 50 \text{mA}$
		1250mV	$I_F = 150 \text{mA}$
Maximum DC		1μΑ	V <sub>R</sub> =75Volts
Reverse Current At	$I_R$	,	$T_J = 25^{\circ}C$
Rated DC Blocking		50μΑ	T <sub>J</sub> = 150°C
Voltage			-
Typical Diode	$C_{D}$	2pF	Measured at
Capacitance			1.0MHz, $V_R$ =0V
Reverse Recovery	T <sub>rr</sub>	6nS	I <sub>F</sub> =I <sub>R</sub> =10mAdc,
Time			$V_R = 0V$
			$R_L=50\Omega$

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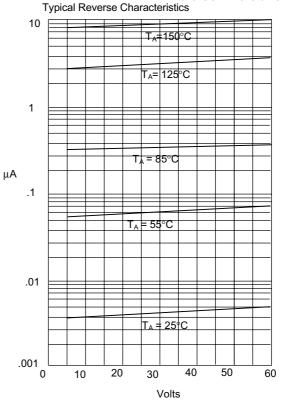
·M·C·C·

Figure 1 Typical Forward Characteristics



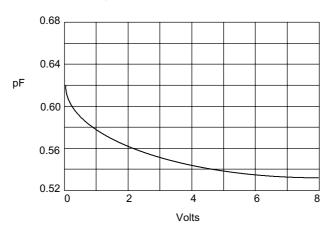
Instantaneous Forward Current - Amperesversus Instantaneous Forward Voltage - Volts

Figure 2 Micro Commercial Components



Instantaneous Reverse Current - MicroAmperes/ersus Reverse Voltage - Volts

Figure 3 Diode Capacitance



Diode Capacitance - pFversus Reverse Voltage - Volts



#### **Micro Commercial Components**

## **Ordering Information:**

Device	Packing		
Part Number-TP	Tape&Reel: 8Kpcs/Reel		

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

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