

Features

- · Fast Switching Speed
- For General Purpose Switching Applications
- · Surface Mount Package
- · Moisture Sensitivity Level 1
- · Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

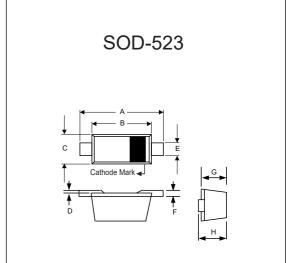
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 833°C/W Junction to Ambient

MCC Part Number	Device Marking		
BAS16X	A6		

Parameter	Symbol	Value
DC Reverse Voltage	V_R	75V
Average Forward Current	I _{F(AV)}	200mA
Peak Forward Surge Current	I _{FSM}	0.5A
Power Dissipation	P _D	150mW

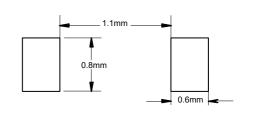
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

150mW 75Volt Switching Diode



DIMENSIONS					
DIM INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOIL
Α	0.059	0.067	1.50	1.70	
В	0.043	0.051	1.10	1.30	
С	0.030	0.033	0.75	0.85	
D	0.000	0.003	0.00	0.07	
Е	0.010	0.014	0.25	0.35	
F	0.003	0.008	0.08	0.20	
G	0.020	0.026	0.50	0.65	
Ι	0.020	0.026	0.50	0.65	

Suggested Solder Pad Layout



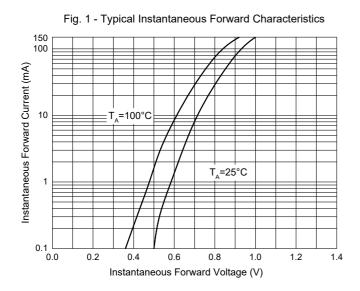


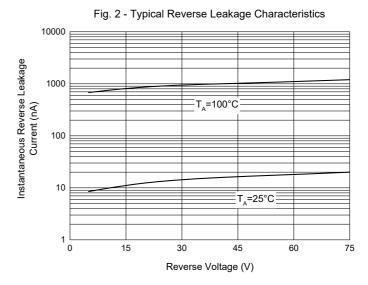
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

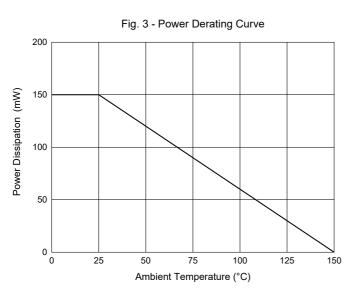
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Breakdown Voltage	V_{BR}	I _R =100μA	75			V
Forward Voltage	V _F	I _F =1mA			0.715	V
		I _F =10mA			0.855	V
		I _F =50mA			1	V
		I _F =150mA			1.25	V
Reverse Current I _R		V _R =75V			1	μA
	V _R =75V, T _J =150°C			50	μA	
Junction Capacitance	CJ	$V_R = 0V$, $f = 1MHz$		2		pF
Reverse Recovery Time	t _{rr}	$I_F = I_R = 10 \text{mA},$ $I_m = 0.1 \times I_R, R_L = 100 \Omega$			6	ns



Curve Characteristics









Ordering Information

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

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