

Features

- Low Reverse Current
- Fast Switching Speed
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

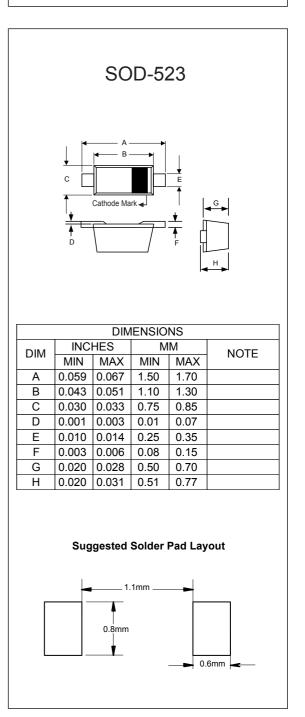
Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 556°C/W Junction to Ambient

MCC Part Number	Device Marking	
BAS716	S1	

Parameter	Symbol	Value
DC Reverse Voltage	V _R	75V
Average Forward Current	I _{F(AV)}	200mA
Peak Forward Surge Current	I _{FSM}	1A
Power Dissipation	P _D	225mW

225mW 75Volt Switching Diode





Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Breakdown Voltage	V _{BR}	Ι _R =100μΑ	75			V
Forward Voltage V _F		I _F =1mA			0.9	V
	I _F =10mA			1	V	
	ν _F	I _F =50mA			1.1	V
	I _F =150mA			1.25	V	
Boyeros Current	V _R =75V			5	nA	
Reverse Guiterit	Reverse Current I _R	V _R =100V			80	nA
Junction Capacitance	CJ	$V_R = 0V, f = 1MHz$		2		pF
Reverse Recovery Time	t _{rr}	I _F =I _R =10mA, I _{rr} =0.1×I _R ,R _L =100Ω			3	μs

Electrical Characteristics @ 25°C (Unless Otherwise Specified)



Curve Characteristics

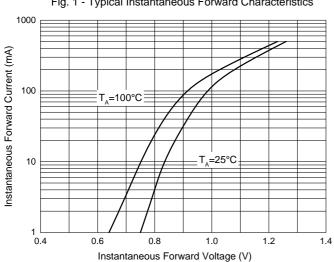
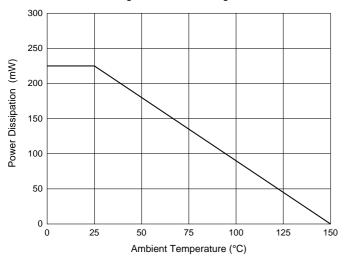
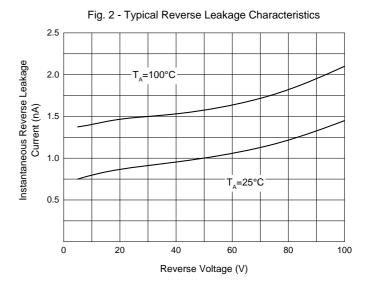


Fig. 1 - Typical Instantaneous Forward Characteristics

Fig. 3 - Power Derating Curve





Rev.3-1-01012019



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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