

Features

- Halogen Free. "Green" Device (Note 1)
- · AEC-Q101 Qualified
- · High Switching Speed
- · For General Purpose Switching Applications
- · Surface Mount Package
- Moisture Sensitivity Level 1
- · Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

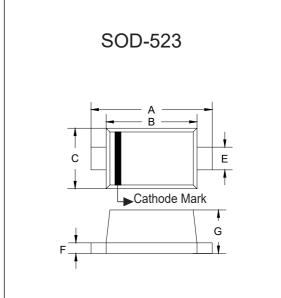
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 833°C/W Junction to Ambient

MCC Part Number	Device Marking		
BAS516HE3	61		

Parameter	Symbol	Value
DC Reverse Voltage	V _R	100V
Average Forward Current	I _{F(AV)}	250mA
Repetitive Peak Forward Current	I _{FRM}	500mA
Power Dissipation	P _D	150mW

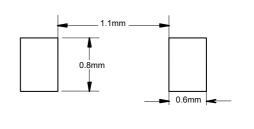
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Switching Diode



DIMENSIONS					
DIM INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	INOTE
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	
E	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	

Suggested Solder Pad Layout





Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units				
- IV #		I _F =1mA			0.715	V				
		I _F =10mA			0.855	V				
Forward Voltage	V _F	I _F =50mA			1	V				
		I _F =150mA			1.25	V				
D	V _R =25V			30	nA					
Reverse Current	I _R	IR	I _R	I _R	I _R	V _R =75V			1	μA
Junction Capacitance	CJ	V _R = 0V, f = 1MHz		1		pF				
Reverse Recovery Time	t _{rr}	$I_F=I_R=10$ mA, $I_{rr}=0.1\times I_R, R_L=100\Omega$			4	ns				



Curve Characteristics

Fig. 1 - Typical Instantaneous Forward Characteristics

250
100
T_A=100°C
T_A=100°C
T_A=25°C
100
0.01
0.01
0.02
0.4
0.6
0.8
1.0
1.2
Instantaneous Forward Voltage (V)

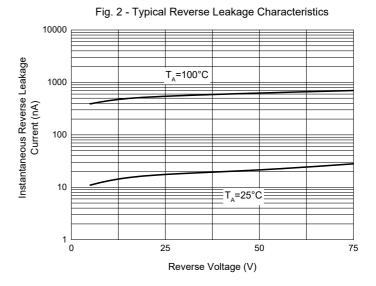


Fig. 3 - Power Derating Curve

150

150

0

25

50

Ambient Temperature (°C)



Ordering Information

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

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