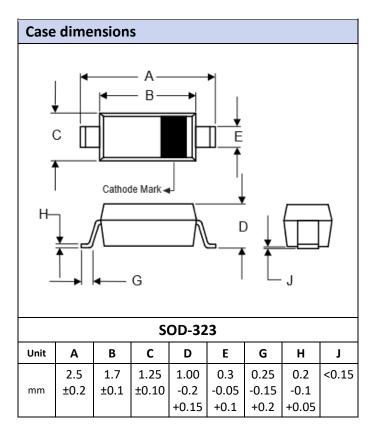


SMD General Purpose Diode

Primary characteristics				
Parameter	Value	Unit		
Repetitive reverse voltage	85	V		
Average rectified forward current	200	mA		
Power dissipation	250	mW		

Features

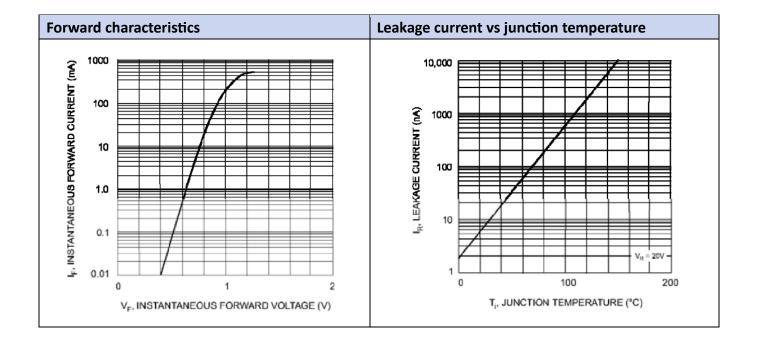
- **SOD-323** case for easy automatic insertion.
- Pb-free and **RoHS** compliant
- General purpose
- Fast switching speed



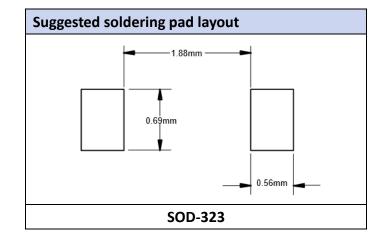
Absolute maximum ratings (Ta=25°C)						
Parameter		Symbol	Value	Unit		
Repetitive reverse voltage		V _{RRM}	85	V		
Average rectified forward current		IF(AV)	200	mA		
Non-repetitive peak forward surge current	Pulse width = 1.0s	Ifsm	0.5	А		
	Pulse width = 1.0µs		4.0			
Total power dissipation (Ts=90°C)		P _{tot}	250	mW		
Thermal resistance junction to ambient		R _{eJA}	833	°C/W		
Storage Temperature Range		T _{stg}	-55 ~ 150	°C		
Junction Temperature Range		Tj	150	°C		



Electrical characteristics (T _a =25°C)						
Parameter	Sumbol	Test conditions	Value		Unit	
Farameter	r Symbol Test conditions		Min.	Max.	Onit	
Breakdown voltage	V _R	I _R =5.0μΑ	75	-	v	
		I _R =100μΑ	100	-		
Forward voltage	VF	I _F =1.0mA	-	0.9	v	
		I _F =10mA	-	1.0		
		I _F =50mA	-	1.1		
		I⊧=150mA	-	1.25		
Reverse current	I _R	V _R =20V	-	25	nA	
		V _R =75V	-	1.0	μΑ	
Diode capacitance	Cd	V _R =0V, f=1.0MHz	-	4.0	pF	
Reverse recovery time	t _{rr}	I _{rr} =0.1*I _R , I _F =I _R =10mA, R _L =100Ω - 3.0		ns		







Ordering information					
Part Number	Marking	Package	Shipping Quantity	Dimensions	
BAS416WS	D4	SOD-323	3000 pcs / reel		

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