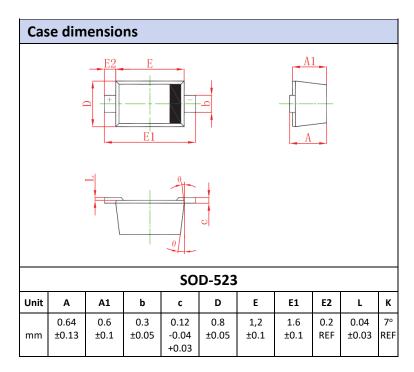


Fast Switching Diode

Primary characteristics					
Parameter	Symbol	Value	Unit		
Peak repetitive reverse voltage	V_{RM}	75	٧		
Average rectified output current	Io	250	mA		
Power Dissipation	P _D	150	mW		

Features

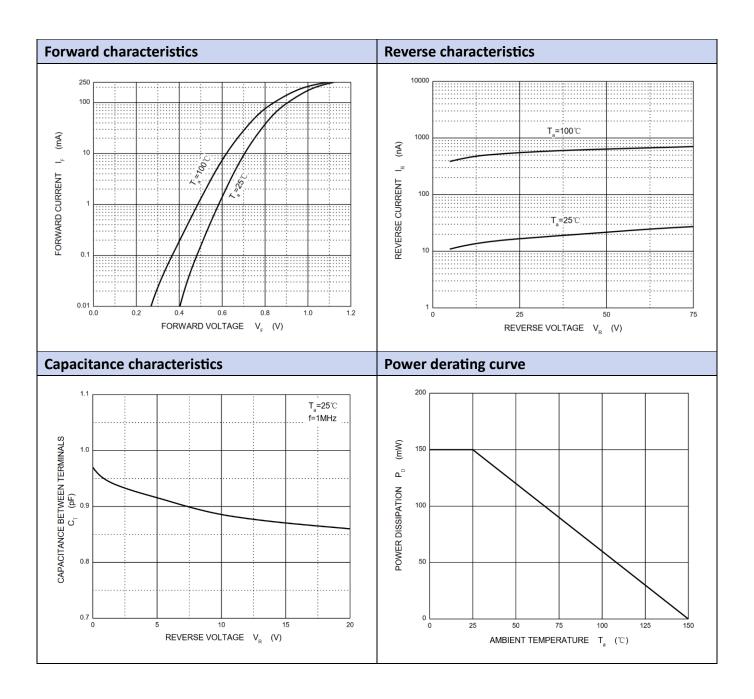
- **SOD-523** case for easy automatic insertion.
- Pb-free and RoHS compliant
- Low reverse current



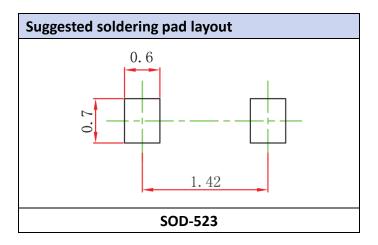
Characteristics			Value			
	Test condition	Symbol	Min.	Тур.	Max.	Unit
Non-repetitive peak reverse voltage	-	V_{RM}	-	-	100	V
Peak repetitive reverse voltage	I =100A	V_{RRM}	_	-	75	V
Working peak reverse voltage		V _{RWM}				
RMS reverse voltage	-	V _{R(RMS)}	-	-	53	V
Average rectified output current	-	lo -		-	250	mA
Peak forward surge current @t=1.0μs	-				4.0	А
Peak forward surge current @t=1.0s	-	I _{FSM}			0.5	
Power dissipation	-	P _D	-	-	150	mW
Thermal resistance from junction to ambient	-	$R_{\Theta JA}$	-	833	-	°C/W
Junction temperature	-	Tj	-55	-	150	°C
Storage temperature	-	T _{STG}	-55	-	150	°C
Reverse current	V _R =25V		-	-	30	nA
	V _R =75V	I _R	-	-	1.0	μΑ
Forward voltage	I _F =1.0mA		-	-	0.715	V
	I _F =10mA	.,	-	-	0.855	
	I _F =50mA	V _F	-	-	1.0	
	I _F =150mA		-	-	1.25	
Total capacitance	V _R =0V, f=1.0MHz	C _{tot}	-	-	1.0	pF
Reverse recovery time	I _F =I _R =10mA, I _{rr} =0.1*I _R , R _L =100Ω	t _{rr}	-	-	4.0	ns

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Ordering information						
Part Number	Package	Shipping Quantity	Dimensions			
BAS516WT	SOD-523	3000 pcs / reel				

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