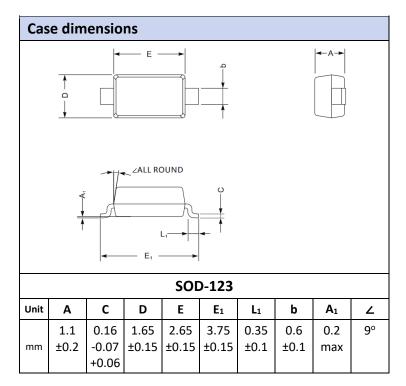


SMD Schottky Barrier Rectifier Diode

Primary characteristics					
Parameter	Value	Unit			
Peak repetitive reverse voltage	20~40	V			
Maximum Average Forward Current at Ta=25°C	0.5	А			

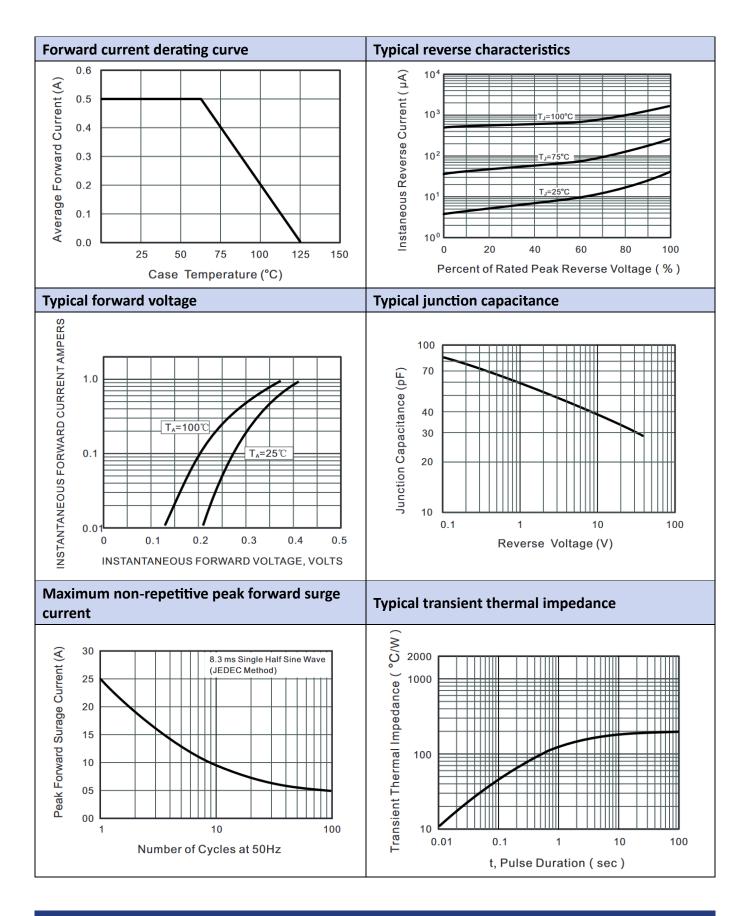
Features

- SOD-123 case for easy automatic insertion.
- Pb-free and **RoHS** compliant
- Low forward voltage drop
- Guard ring construction for transient protection
- High conductance

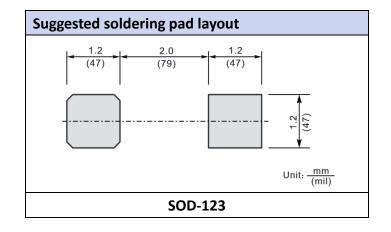


Absolute maximum ratings and general electrical characteristics ($T_a = 25^{\circ}C$)							
Parameter		Symbol	Value				
			MBR0520W	MBR0530W	MBR0540W	Unit	
Peak repetitive reverse voltage		V _{RRM}	20	30	40		
RMS reverse voltage reverse voltage (DC)		Vrms	14	21	28	V	
Maximum DC blocking voltage		V _{DC}	20	30	40		
Maximum average forward current at T _a =25°C		IF(AV)	0.5			А	
Peak forward surge current, 8.3ms single half sine- wave superimposed on rated load (JEDEC method)		I _{FSM}	25				
Marking		-	B2	В3	B4	-	
Maximum instantaneous forward voltage	I _F =0.1A		0.33	0.375	-		
	I⊧=0.5A	VF	0.39	0.43	0.51	V	
	IF=1A		-	-	0.62		
Reverse current	V _R =10V	I _R	75	-	-	μΑ	
	V _R =15V		-	20	-		
	V _R =20V		250	-	10		
	V _R =30V		-	130	-		
	V _R =40V		-	-	20		
Thermal resistance, junction to ambient air		$R_{\Theta JA}$	200			°C/W	
Operating junction temperature range		Tj	-55 ~ 125			°C	
Storage temperature range		Tstg	-55 ~ 150			°C	









Ordering information						
Part Number	Package	Shipping Quantity	Dimensions			
MBR0520W ~ MBR0540W	SOD-123	3000 pcs / reel				

Disclaimer

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