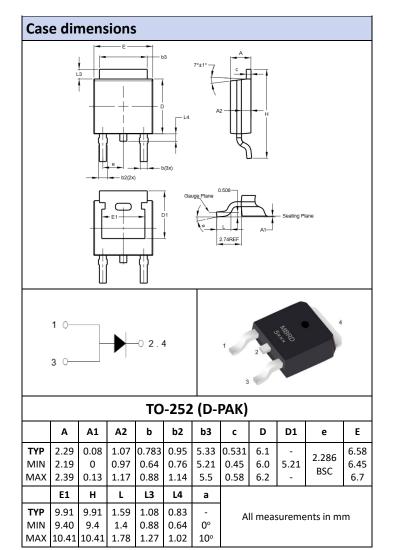


SMD Schottky Barrier Rectifier Diode

Primary characteristics							
Parameter	Value	Unit					
Peak repetitive reverse voltage	40 ~ 200	V					
Maximum Average Forward Current at Ta=25°C	5.0	А					

Features

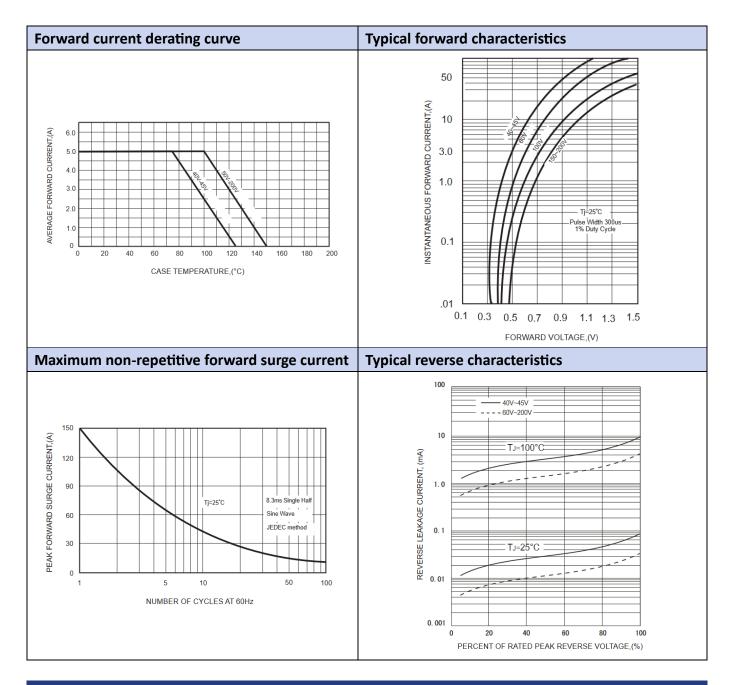
- **TO-252** case for easy automatic insertion.
- Pb-free and RoHS compliant
- High current capability
- Low forward voltage drop
- Low power loss, high efficiency
- High surge capability
- High temperature soldering guaranteed



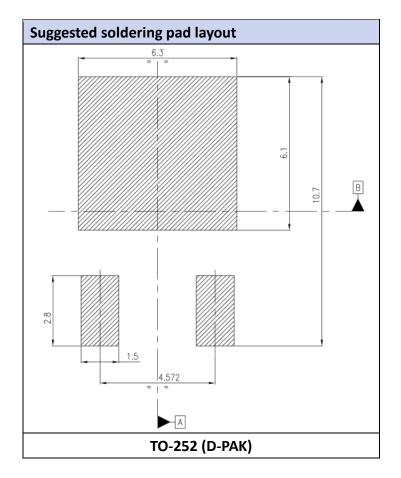
Absolute maximum ratings and general electrical characteristics ($T_a = 25^{\circ}C$)										
Parameter		Symbol	Value						Unit	
		Symbol	MBRD540	MBRD545	MBRD560	MBRD5100	MBRD5150	MBRD5200		
Peak repetitive reverse voltage		VRRM	40	45	60	100	150	200		
RMS reverse voltage reverse voltage (DC)		V _{RMS}	28	31.5	42	70	105	140	V	
Maximum DC blocking voltage		V _{DC}	40	45	60	100	150	200	7	
Maximum average forward cur	rent	I _{F(AV)}	5.0							
Peak forward surge current 8.3ms single half sine-wave superimposed I _{FSM} on rated load (JEDEC method)			150						A	
Maximum forward voltage	I _F =5.0A	VF	0	.6	0.7	0.85	0.9	0.92	V	
Maximum DC reverse current	TJ=25°C			0.5						
at rated DC blocking voltage	TJ=125°C	I _R		20					mA	



Absolute maximum ratings and general electrical characteristics ($T_a = 25^{\circ}C$)								
Parameter	Symbol	Value						Unit
		MBRD540	MBRD545	MBRD560	MBRD5100	MBRD5150	MBRD5200	Unit
Typical junction capacitance per element	CJ	600			pF			
Thermal resistance, junction to ambient air	R _{eJA}	35					°C/W	
Operating junction and storage temperature range	Tj	-55 ~ 150					°C	







Ordering information								
Part Number	Package	Shipping Quantity	Dimensions					
MBRD540 ~ MBRD5200	TO-252	2500 pcs / reel						

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