

MBR370-MBR3100

3 AMP SCHOTTKY RECTIFIERS

High-reliability discrete products and engineering services since 1977

FEATURES

- Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number.
- Available as non-RoHS (Sn/Pb plating), standard, and as RoHS by adding "-PBF" suffix.

MAXIMUM RATINGS				-	-	
Rating	Symbol	MBR370	MBR380	MBR390	MBR3100	Unit
Peak repetitive reverse voltage Working peak reverse voltage DC blocking voltage	V _{RRM} V _{RWM} V _R	70	80	90	100	V
Average rectified forward current (R _{BJA} = 28°C/W, PC board mounting where copper surface is small)	Io	3 @ T _A = 100°C			А	
Non-repetitive peak surge current (surge applied at rated load conditions, halfwave, single phase, 60Hz)	IFSM	150			А	
Operating and storage junction temperature range (reverse voltage applied)	TJ, Tstg	-65 to +150			°C	
Voltage rate of change (Rated V _R)	dv/dt	10			V/ns	
Maximum thermal resistance Junction to ambient	R _{əja}	28			°C/W	

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise specified)

Parameter	Symbol	MBR370	MBR380	MBR390	MBR3100	Unit
Maximum instantaneous forward voltage ⁽¹⁾ ($I_F = 3A, T_L = 25^{\circ}C$)	VF	0.79		v		
(IF = 3A, TL = 100°C) Maximum instantaneous reverse current ⁽¹⁾				69		
(T _L = 25°C) (T _L = 100°C)	IR		0 2	.6 0		mA



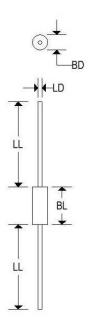
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MECHANICAL CHARACTERISTICS

Case	DO-201A	
Marking	Alpha-numeric	
Pin out	Cathode band	



	DO-201A					
	Inches		Millimeters			
	Min	Max	Min	Max		
BD	0.190	0.260	4.826	6.604		
BL	0.285	0.375	7.240	9.530		
LD	0.048	0.052	1.219	1.321		
LL	1.000		25.400	2		



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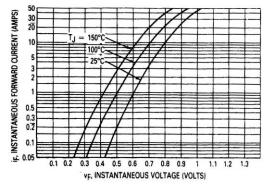


Figure 1. Typical Forward Voltage

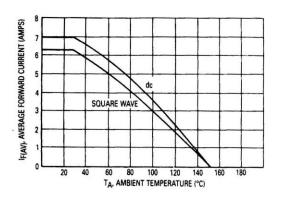


Figure 3. Current Derating (Mounting method 3 per note 1.)



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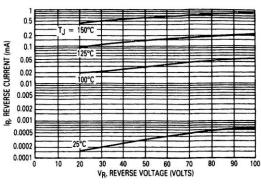
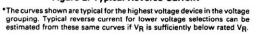


Figure 2. Typical Reverse Current*



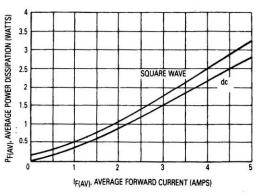


Figure 4. Power Dissipation

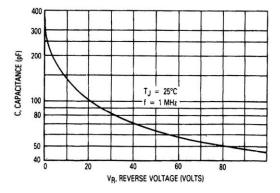


Figure 5. Typical Capacitance