

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	MBR				Unit
		370	380	390	3100	Unit
Peak repetitive reverse voltage	V _{RRM}					
Working peak reverse voltage	V _{RWM}	70	80	90	100	V
DC blocking voltage	V _R					
Average rectified forward current (R _{0JA} = 28°C/W, PC board mounting where copper surface is small)	lo	3 @ T _A = 100°C			A	
Non-repetitive peak surge current (surge applied at rated load conditions, halfwave, single phase, 60Hz)	I _{FSM}	150		A		
Operating and storage junction temperature range (reverse voltage applied)	$T_{J,}T_{stg}$	-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	MBR				– Unit
Falameter		370	380	390	3100	Unit
Maximum instantaneous forward voltage (1)						
(I _F = 3A, T _L = 25°C)	VF		0.	79		v
$(I_F = 3A, T_L = 100^{\circ}C)$			0.	69		
Maximum instantaneous reverse current (1)						
(T _L = 25°C)	I _R		0	.6		mA
(T _L = 100°C)			2	20		



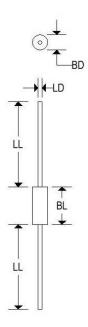
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MECHANICAL CHARACTERISTICS

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	10	25.400	-		



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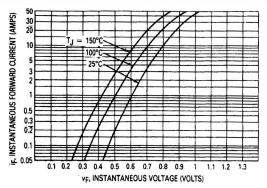


Figure 1. Typical Forward Voltage

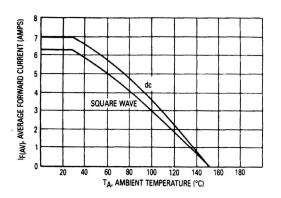


Figure 3. Current Derating (Mounting method 3 per note 1.)



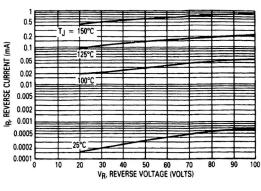
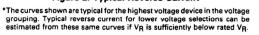


Figure 2. Typical Reverse Current*



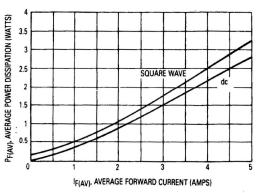


Figure 4. Power Dissipation

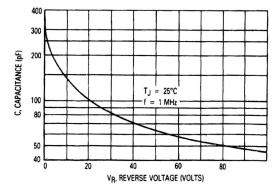


Figure 5. Typical Capacitance