

High-reliability discrete products and engineering services since 1977

MBR170-MBR1100

1 AMP SCHOTTKY RECTIFIERS

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		M	BR		Unit
Kaung	Symbol	170	180	190	1100	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 $(V_{R(equiv)} \le 0.2 V_{R(dc)}, R_{\Theta JA} = 50^{\circ}C/W, PC board mounting with 1 ½" x 1 ½" copper surface)$	Io	1 @ T _A = 120°C		А		
Non-repetitive peak surge current (surge applied at rated load conditions, halfwave, single phase, 60Hz)	I _{FSM}		5	60		А
Operating and storage junction temperature range	T _{J,} T _{stg}		-65 to	+150		°C
Voltage rate of change (Rated V _R)	dv/dt		1	.0		V/ns
Maximum thermal resistance Junction to ambient (lead length = ½")	R _{ÐJA}		7	'2		°C/W

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

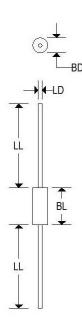
Dozomotov	Summa had	MUR			Unit
Parameter	Parameter Symbol	6020	6030	6040	Unit
Maximum instantaneous forward voltage (1)					
$(I_F = 1A, T_L = 25^{\circ}C)$	V_{F}		0.79		V
$(I_F = 1A, T_L = 100^{\circ}C)$			0.69		
Maximum instantaneous reverse current (1)					
(Rated dc voltage, T _L = 25°C)	I _R		0.5		mA
(Rated dc voltage, $T_L = 100$ °C)			5		



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MECHANICAL CHARACTERISTICS

Case	DO-41	
Marking	Alpha-numeric	
Pin out	Cathode band	



	DO-41					
	Inches		Millimeters			
	Min	Max	Min	Max		
BD		0.107	=	2.720		
BL	.5	0.205	5	5.207		
LD	0.028	0.034	0.711	0.864		
LL	1.000	186	25.400	6.50		

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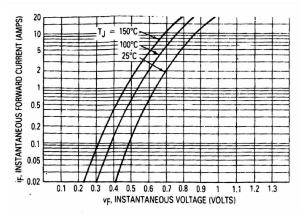


Figure 1. Typical Forward Voltage

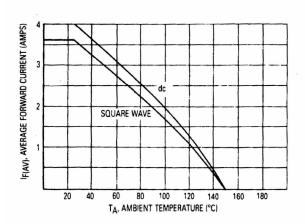


Figure 3. Current Derating (Mounting method 3 per note 1.)

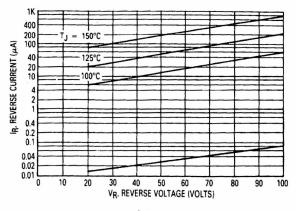


Figure 2. Typical Reverse Current*

*The curves shown are typical for the highest voltage device in the voltage grouping. Typical reverse current for lower voltage selections can be estimated from these same curves if V_R is sufficiently below rated V_R.

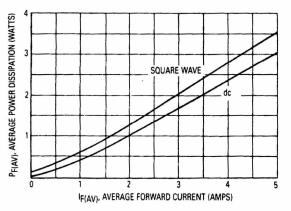


Figure 4. Power Dissipation

