

High-reliability discrete products and engineering services since 1977

MBR1635-MBR1645

16 A 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	MBR1635	MBR1645	Unit
Peak repetitive reverse voltage	V _{RRM}			
Working peak reverse voltage	V_{RWM}	35	45	V
DC blocking voltage	V_R			
Average rectified forward current (Rated V _R)	I _{F(AV)}	16 @ To	= 125°C	Α
Peak repetitive forward current (Rated V _R , square wave, 20kHz)	I _{FRM}	32 @ Tc	= 125°C	Α
Non-repetitive peak surge current (surge applied at rated load conditions, halfwave, single phase, 60Hz)	I _{FSM}	15	50	А
Peak repetitive reverse surge current (2.0µs, 1.0 kHz)	I _{RRM}	1	.0	Α
Operating junction temperature range	Tı	-65 to	+150	°C
Storage temperature range	T _{stg}	-65 to	+175	°C
Voltage rate of change (Rated V _R)	dv/dt	10	00	V/µs
Maximum thermal resistance, Junction to case	Rejc	1	.5	°C/W

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

Parameter	Symbol	MBR1635	MBR1645	Unit
Maximum instantaneous forward voltage $^{(1)}$ (I _F = 16A, T _C = 125°C) (I _F = 16A, T _C = 25°C)	V _F	0.57 0.63		V
Maximum instantaneous reverse current $^{(1)}$ (Rated dc voltage, $T_C = 125^{\circ}C$) (Rated dc voltage, $T_C = 25^{\circ}C$)	I _R	40 0.2		mA



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MECHANICAL CHARACTERISTICS

Case	TO-220AC	
Marking	Alpha-numeric	
Pin out	Cathode band	

Pin1 Pin3

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	TO-220AC				
	Inches		Millimeters		
	Min	Max	Min	Max	
Α	0.595	0.620	15.110	15.750	
В	0.380	0.405	9.650	10.290	
C	0.160	0.190	4.060	4.820	
D	0.142	0.147	3.610	3.730	
F	0.142	0.147	3.610	3.730	
G	0.190	0.210	4.830	5.330	
Н	0.110	0.130	2.790	3.300	
J	0.018	0.025	0.460	0.640	
K	0.500	0.562	12.700	14.270	
L	0.045	0.050	1.140	1.270	
Q	0.100	0.120	2.540	3.040	
R	0.080	0.110	2.040	2.790	
S	0.045	0.055	1.140	1.390	
T	0.235	0.255	5.970	6.480	
U	0.030	0.050	0.760	1.270	



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