

High-reliability discrete products and engineering services since 1977

MBR1035-MBR1060

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

Cumbal	Dawawatan		Va	lue		Huito
Symbol	Parameter	MBR1035	MBR1045	MBR1050	MBR1060	Units
V_{RRM}	Maximum repetitive reverse voltage	35	45	50	60	V
I _{F(AV)}	Average rectified forward current		:	10		А
I _{FSM}	Non-repetitive peak forward surge current 8.3 ms single half-sine wave		1	50		А
T_{stg}	Storage temperature range		-65 to	+175		°C
Tı	Operating junction temperature		-65 to	+150		°C

THERMAL CHARACTERISTICS

Symbol	Parameter	Value	Units
P_D	Power dissipation	2.0	W
Reja	Thermal resistance, junction to ambient	60	°C/W
$R_{\theta JL}$	Thermal resistance, junction to lead	2.0	°C/W

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

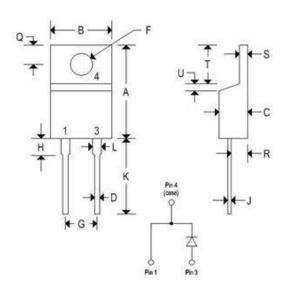
Symbol	Pa	rameter		Device Units			
			MBR1035	MBR1045	MBR1050	MBR1060	
VF	Forward voltage	$I_{F} = 10A, T_{C} = 25^{\circ}C$ $I_{F} = 10A, T_{C} = 125^{\circ}C$ $I_{F} = 20A, T_{C} = 25^{\circ}C$ $I_{F} = 20A, T_{C} = 125^{\circ}C$	0.	57 84 72	0.	.80 .70 .95 .85	V
\mathbf{I}_{R}	Reverse current @ rated V _R	$T_A = 25$ °C $T_A = 125$ °C).1 15		mA
I _{RRM}	current	e reverse surge width, $f = 1.0 \text{ KHz}$	1	.0	0	.5	А



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MECHANICAL CHARACTERISTICS

Case	TO-220AC
Marking	Alpha-numeric
Pin out	See below



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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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