

High-reliability discrete products and engineering services since 1977

MBR1535CT-MBR1545CT

15 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

WAANION RATINGS						
Rating	Symbol	MBR1535CT	MBR1545CT	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)}	15 @ T _C = 105°C		Α		
Non-repetitive peak surge current (surge applied at rated load conditions, halfwave, single phase, 60Hz)	I _{FSM}	150		А		
Peak repetitive reverse surge current (2.0µs, 1.0 kHz)	I _{RRM}	1.0		Α		
Operating junction temperature range	T _J	-65 to +150		°C		
Storage temperature range	T_{stg}	-65 to +175		°C		
Voltage rate of change (Rated V _R)	dv/dt	1000		V/µs		
Maximum thermal resistance, Junction to case	Rejc	3.0		°C/W		
Maximum thermal resistance, Junction to ambient	Reja	60		°C/W		

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

Parameter	Symbol	MBR1535CT	MBR1545CT	Unit
Maximum instantaneous forward voltage $^{(1)}$ (I _F = 7.5A, T _C = 125°C) (I _F = 15A, T _C = 125°C) (I _F = 15A, T _C = 25°C)	VF	0.57 0.72 0.84		V
Maximum instantaneous reverse current (1) (Rated dc voltage, T _C = 125°C) (Rated dc voltage, T _C = 25°C)	I _R	1 0		mA



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MECHANICAL CHARACTERISTICS

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

Pin 1 Pin 2 Pin 3

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	ТО-220АВ				
	Inches		Millin	neters	
	Min	Max	Min	Max	
Α	0.570	0.620	14.480	15.750	
В	0.380	0.405	9.660	10.280	
С	0.160	0.190	4.070	4.820	
D	0.025	0.035	0.640	0.880	
F	0.142	0.147	3.610	3.730	
G	0.095	0.105	2.420	2.660	
Н	0.110	0.155	2.800	3.930	
J	0.018	0.025	0.460	0.640	
K	0.500	0.562	12.700	14.270	
L	0.045	0.060	1.150	1.520	
N	0.190	0.210	4.830	5.330	
Q	0.100	0.120	2.540	3.040	
R	0.080	0.110	2.040	2.790	
S	0.045	0.055	1.150	1.390	
Т	0.235	0.255	5.970	6.470	
U	-	0.050	-	1.270	



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