

High-reliability discrete products and engineering services since 1977

MBR2535CT-MBR2545CT

30 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

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Rating	Symbol	MBR2535CT	MBR2545CT	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)}	30 @ T _C = 130°C		Α	
Non-repetitive peak surge current per diode (surge applied at rated load conditions, halfwave, single phase, 60Hz)	I _{FSM}	150		А	
Peak repetitive reverse surge current (2.0μs, 1.0kHz)	I _{RRM}	1.0		А	
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	1000		V/µs	
Maximum thermal resistance Junction to case	R _{eJC}	1.5		°C/W	

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

Parameter	Symbol	MBR2535CT	MBR2545CT	Unit
Maximum instantaneous forward voltage (1)				
(I _F = 30A, T _C = 125°C)	V _F	0.	73	V
$(I_F = 30A, T_C = 25^{\circ}C)$		0.	82	
Maximum instantaneous reverse current (1)				
(Rated dc voltage, T _C = 125°C)	I _R	4	0	mA
(Rated dc voltage, T _c = 25°C)		0	.2	



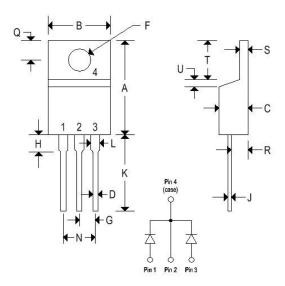
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MECHANICAL CHARACTERISTICS

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



	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		
T	0.235	0.255	5.970	6.470		
U	-	0.050	-	1.270		



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