

# MBR2535CTL

### **25A SCHOTTKY RECTIFIER**

High-reliability discrete products and engineering services since 1977

#### 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	MBR2535CTL	Unit	
Peak repetitive reverse voltage	V <sub>RRM</sub>	35		
Working peak reverse voltage	V <sub>RWM</sub>	30	V	
DC blocking voltage	V <sub>R</sub>	30		
Average rectified forward current (Rated $V_R$ )	I <sub>F(AV)</sub>	12.5 @ T <sub>c</sub> = 110°C	А	
Peak repetitive forward current (Rated $V_R$ , square wave, 20 kHz)	I <sub>FRM</sub>	25 @ T <sub>c</sub> = 95°C	А	
Peak repetitive reverse surge current (2.0µs, 1.0 kHz)	I <sub>RRM</sub>	1	А	
Non-repetitive peak surge current (surge applied at rated load conditions, halfwave, single phase, 60Hz)	I <sub>FSM</sub>	150	А	
Operating junction temperature range	TJ	-65 to +125	°C	
Storage junction temperature range	T <sub>stg</sub>	-65 to +150	°C	
Voltage rate of change (Rated V <sub>R</sub> )	dv/dt	10000	V/µs	
Controlled avalanche energy	W <sub>aval</sub>	20	mJ	
Maximum thermal resistance			°C/W	
Junction to case	R <sub>eJC</sub>	2.0	0,11	

#### **ELECTRICAL CHARACTERISTICS** (T<sub>A</sub> = 25°C unless otherwise specified)

Parameter	Symbol	MBR2535CTL	Unit	
Maximum instantaneous forward voltage (1)				
(I <sub>F</sub> = 25A, T <sub>C</sub> = 25°C)		0.55	v	
(I <sub>F</sub> = 12.5A, T <sub>C</sub> = 25°C)	V <sub>F</sub>	0.47		
(I <sub>F</sub> = 12.5A, T <sub>C</sub> = 125°C)		0.41		
Maximum instantaneous reverse current (1)				
(Rated dc voltage, $T_c = 25^{\circ}C$ )	I <sub>R</sub>	5.0	mA	
(Rated dc voltage, $T_c = 125$ °C)		500		



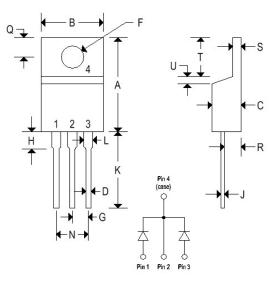
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#### MECHANICAL CHARACTERISTICS

Case	ТО-220АВ	
Marking	Alpha-numeric	
Pin out	Cathode band	



	ТО-220АВ					
	Inc	Inches		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		
К	0.500	0.562	12.700	14.270		
L	0.045	0.060	1.150	1.520		
Ν	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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