

Fast Recovery Rectifier Diodes

FEATURES

- Suited for SMPS application
- Low forward and reverse recovery time
- High surge current capability
- Low losses

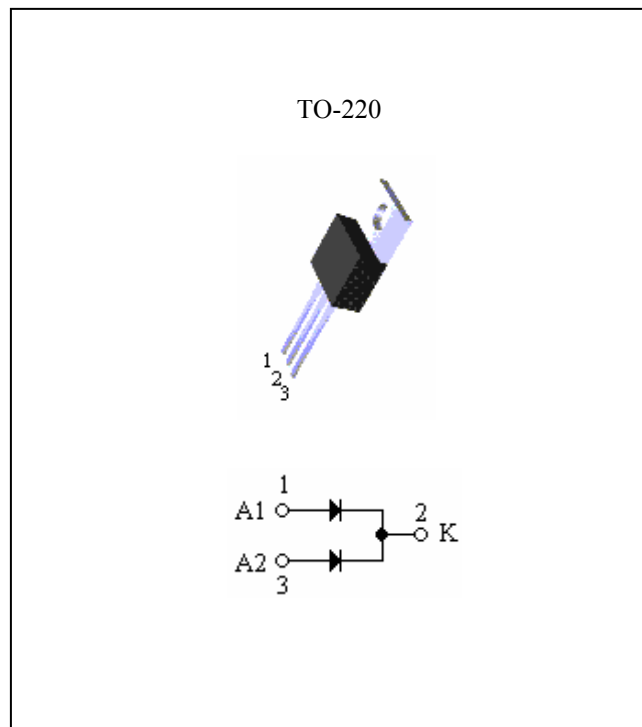
DESCRIPTION

Low cost dual rectifier suited for switching mode power supply and high frequency DC to DC converters.

This device is intended for use in low voltage, high frequency inverters, free wheeling and polarity protection applications

ORDERING INFORMATION

Device	Operating Temperature	Package
PJF20C20CZ	-20 ~ +85°C	TO-220



MAXIMUM RATINGS

Parameter	Symbols	Value	Units
Repetitive Peak Reverse Voltage	V_{RRM}	200	V
Non-Repetitive Peak Reverse Voltage	V_{RMS}	230	V
Average Forward Current	$I_F (RMS)$	20	A
Peak Forward Surge Current (Surge applied at rated load conditions halfwave, single phase, 50Hz)	I_{FSM}	80	A
Operating Junction Temperature Range	T_J	-20 to +150	°C
Storage Temperature Range	T_{STG}	-65 to +150	°C

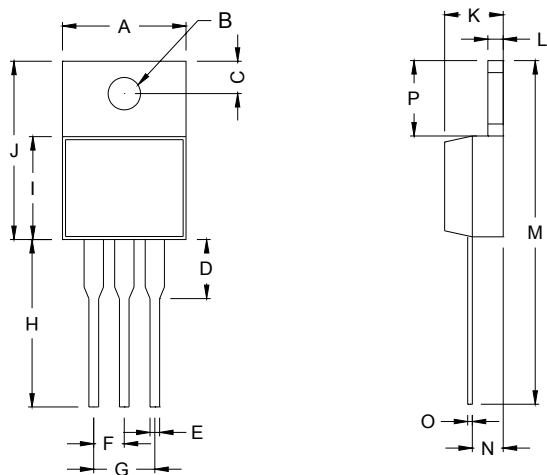
ELECTRICAL CHARACTERISTICS ($T_J = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbols	Value	Units
Forward Voltage Drop, $I_F = 10\text{A}$	V_F	1.10	V
$I_F = 20\text{A}$ (Note 1)		1.25	
Reverse Current, $V_R = V_{RRM}$ (Note 1)	I_{RRM}	50	μA
Reverse Recovery Time, $I_F = 1\text{A}$, $di/dt = 50\text{Amps}/\mu\text{s}$	t_{rr}	300	ns
Junction to Case Thermal Resistance	$R_{th(j-c)}$	3.0	°C/W

Note 1: Pulse Test: Pulse Width = 300 μs , Duty Cycle < 2%

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TO-220 Unit : mm



TO-220 DIMENSION				
DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	10.000	10.500	0.394	0.413
B	3.240	4.440	0.128	0.175
C	2.440	2.940	0.096	0.116
D	-	6.350	-	0.250
E	0.381	1.106	0.015	0.040
F	2.345	2.715	0.092	0.058
G	4.690	5.430	0.092	0.107
H	12.700	14.732	0.500	0.581
I	8.382	9.017	0.330	0.355
J	14.224	16.510	0.560	0.650
K	3.556	4.826	0.140	0.190
L	0.508	1.397	0.020	0.055
M	27.700	29.620	1.060	1.230
N	2.032	2.921	0.080	0.115
O	0.255	0.610	0.010	0.024
P	5.842	6.858	0.230	0.270