

Fast Recovery Rectifier
DPG20C300PB
FEATURES

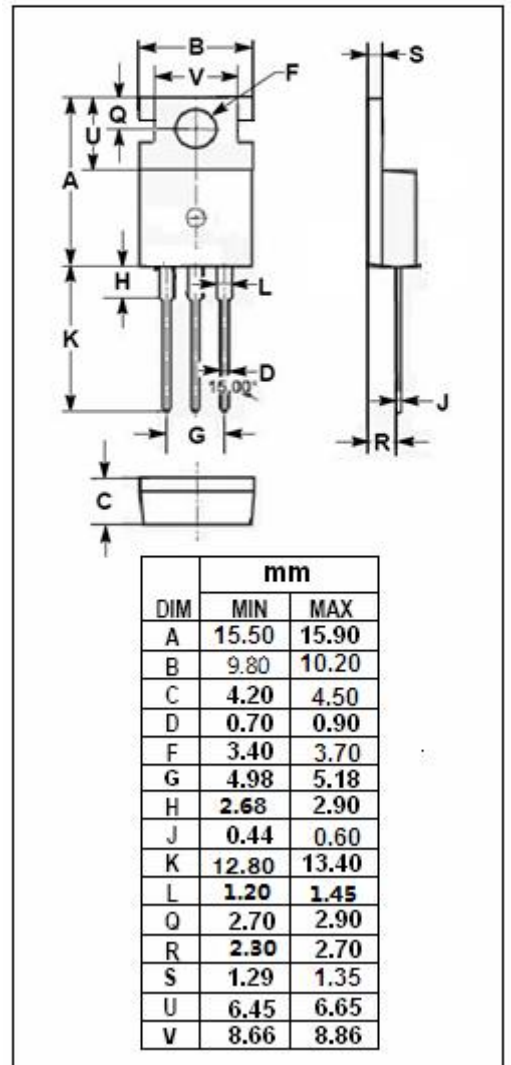
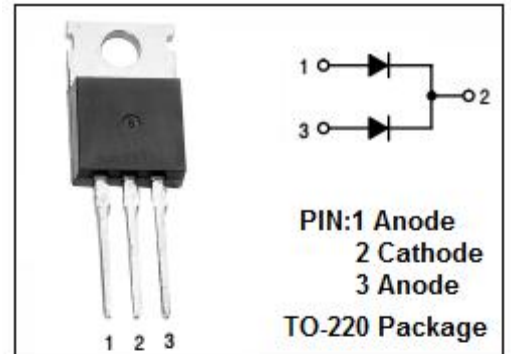
- Very low leakage current
- Very short recovery time
- Low forward voltage, high efficiency
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- High frequency switching power supply
- SMPS
- UPS

ABSOLUTE MAXIMUM RATINGS (T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM}	Peak Repetitive Reverse Voltage	300	V
I _{F(AV)}	Average Rectified Forward Current Per Leg Total device	10 20	A
I _{FSM}	Non-repetitive Peak Surge Current (Surge applied at rated load conditions half-wave, single phase, 50Hz)	140	A
P _D	Maximum power dissipation	65	W
T _J	Junction Temperature	-55~150	°C
T _{stg}	Storage Temperature Range	-55~150	°C



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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R_{thj-c}	Thermal Resistance, Junction to Case	2.0	$^{\circ}C/W$

ELECTRICAL CHARACTERISTICS ($T_a=25^{\circ}C$) (Pulse Test: Pulse Width=300 μ s, Duty Cycle \leq 2%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V_F	Maximum Instantaneous Forward Voltage	$I_F=10A; T_j=25^{\circ}C$ $I_F=10A; T_j=150^{\circ}C$	1.27 0.98	V
I_R	Maximum Instantaneous Reverse Current	$V_R=300V;$ $V_R=300V; T_j=150^{\circ}C$	1 0.06	μA
t_{rr}	Maximum Reverse Recovery Time	$I_F=10A;$	35	ns

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