

Ultrafast Rectifier

DPG20C400PB

FEATURES

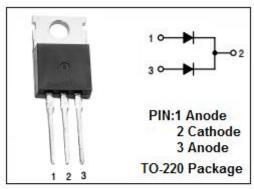
- · Guarding for over voltage protection
- · Dual rectifier construction, positive center tap
- · Metal of silicon rectifier, majority carrier conduction
- · Low forward voltage, high efficiency
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

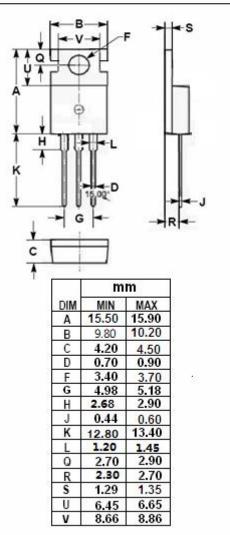
APPLICATIONS

- Switching power supply
- · Power switching circuits

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
VRRM VRWM VR	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	400	V
I _{F(AV)}	Average Rectified Forward Current Per Leg Total device	10 20	Α
I _{FSM}	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half- wave, single phase, 60Hz)	150	А
P _D	Maximum power dissipation	65	W
TJ	Junction Temperature	-55~175	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~175	$^{\circ}$







Fast Recovery Rectifier

DPG20C400PB

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case		°C/W

ELECTRICAL CHARACTERISTICS(Ta=25℃) (Pulse Test: Pulse Width=300 µ s,Duty Cycle≤2%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
VF	Maximum Instantaneous Forward Voltage	I _F = 10A;Tj=25°C I _F = 10A;Tj=125°C I _F = 20A;Tj=25°C I _F = 20A;Tj=125°C	1.32 1.03 1.51 1.24	V
I _R	Maximum Instantaneous Reverse Current	V _R = V _{RWM} V _R = V _{RWM} ; Tj=125 °C	1.0 150	μ А
t _{rr}	Maximum Reverse Recovery Time	I _F =1A;	55	ns

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