

Fast Recovery Rectifier

FEP30GP

FEATURES

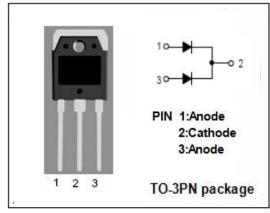
- Fast switching for high efficiency
- · Low forward voltage drop
- · High current capability
- · Low reverse leakage current
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

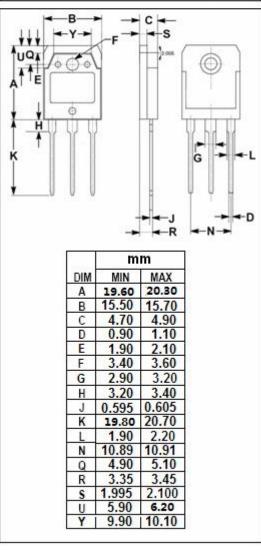
APPLICATIONS

- Switching power supply
- · Power switching circuits

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} V _{RWM} V _R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	400	V
I _{F(AV)}	Maximum average forward rectified current at T_C = 100 $^{\circ}$ C	30	А
IFSM	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half- wave, single phase, 60Hz)	300	А
P _D	Maximum power dissipation	125	W
TJ	Junction Temperature	-55~150	${\mathbb C}$
T _{stg}	Storage Temperature Range	-55~150	${\mathbb C}$







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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	1	°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 = 15A ;Tj=25℃	1.3	V
I _R	Maximum Instantaneous Reverse Current	V _R = V _{RWM} ; Tj=125°C V _R = V _{RWM}	500 10	μ А
t _{rr}	Maximum Reverse Recovery Time	IF =1A;	50	ns

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