

Fast Recovery Rectifier

FEP16JT

FEATURES

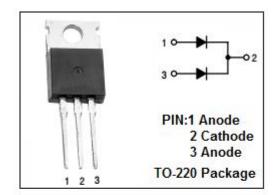
- · High surge current capability
- · Low forward voltage, high current capability
- Low power loss
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

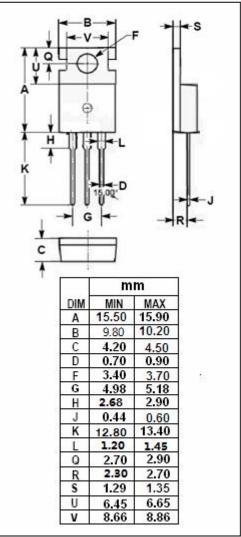
APPLICATIONS

- · Switching power supply
- · Power switching circuits
- General purpose

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT			
VRRM	Peak Repetitive Reverse Voltage	600	V			
I _{F(AV)}	Average Rectified Forward Current 16		A			
I _{FSM}	Nonrepetitive Peak Surge Current (8.3ms single half sine-wave superimposed on rated load)		А			
TJ	Junction Temperature -55~150		°C			
T _{stg}	Storage Temperature Range -55~150		$^{\circ}$ C			
THERMAL CHARACTERISTICS						
SYMBOL	PARAMETER	MAX	UNIT			
R _{th j-c}	Thermal Resistance,Junction to Case	2.2	°C/W			





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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
VF	Maximum Instantaneous Forward Voltage	I _F =8A ; T _C =25℃	1.5	V
I _R	Maximum Instantaneous Reverse Current	V _R = V _{RWM} ; T _C =150 °C V _R = V _{RWM} ; T _C =25 °C	500 10	μА
t _{rr}	Maximum Reverse Recovery Time	I _F =0.5A; I _R =1A; I _{rr} =0.25A	50	ns



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