

Fast Rectifier FEP6DT

FEATURES

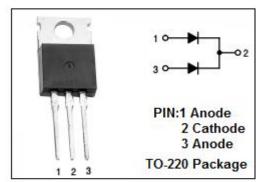
- With TO-220 packaging
- · High junction temperature capability
- · Low forward voltage
- High current capability
- · Low power loss, high efficiency
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

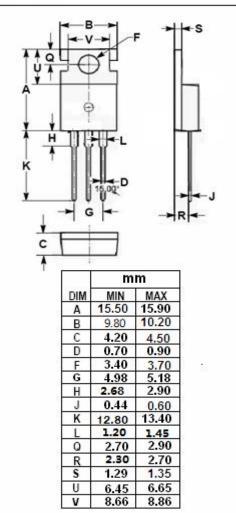
APPLICATIONS

- Switching power supply
- · Free-Wheeling diodes
- · Reverse battery protection

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNI T
V _{RRM} V _{RMS} V _R	Peak Repetitive Reverse Voltage RMS Voltage DC Blocking Voltage	200	V
I _{F(AV)}	Average Rectified Forward Current @Tc=100℃	6	Α
IFSM	Nonrepetitive Peak Surge Current (8.3ms single half sine-wave superimposed on rated load conditions)	100	Α
TJ	Junction Temperature	-55~150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$ C





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THERMAL CHARACTERISTICS

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

ELECTRICAL CHARACTERISTICS (Pulse Test: Pulse Width=300 µ s,Duty Cycle≤1%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
VF	Maximum Instantaneous Forward Voltage	I _F =3A	0.975	V
I _R	Maximum Instantaneous Reverse Current	V _R = rated V _{RRM} ;@Tj=25℃ Tj=100℃	5 50	μ Α
t _{rr}	Maximum Reverse Recovery Time	I _F =0.5A;I _R =1.0A;Irr=0.25A	35	ns

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