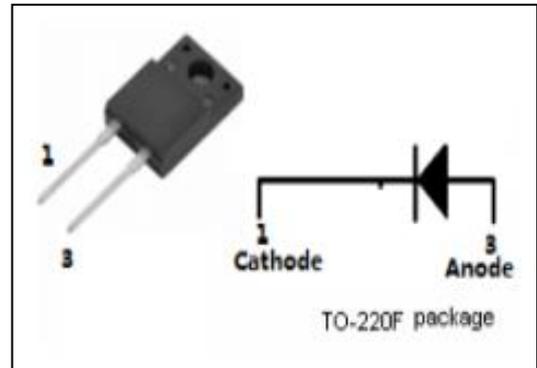


Fast Recovery Rectifier
FFPF30UA60S
FEATURES

- Ultrafast recovery
- 600V reverse voltage and high reliability
- Metal of silicon rectifier, majority carrier conduction
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Boost diode in PFC and switching mode power supply
- Welding, UPS and motor control application


ABSOLUTE MAXIMUM RATINGS (T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} V _{RWM} V _R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	600	V
I _{F(AV)}	Average Rectified Forward Current	30	A
I _{FSM}	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half-wave, single phase, 60Hz)	180	A
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-65~150	°C

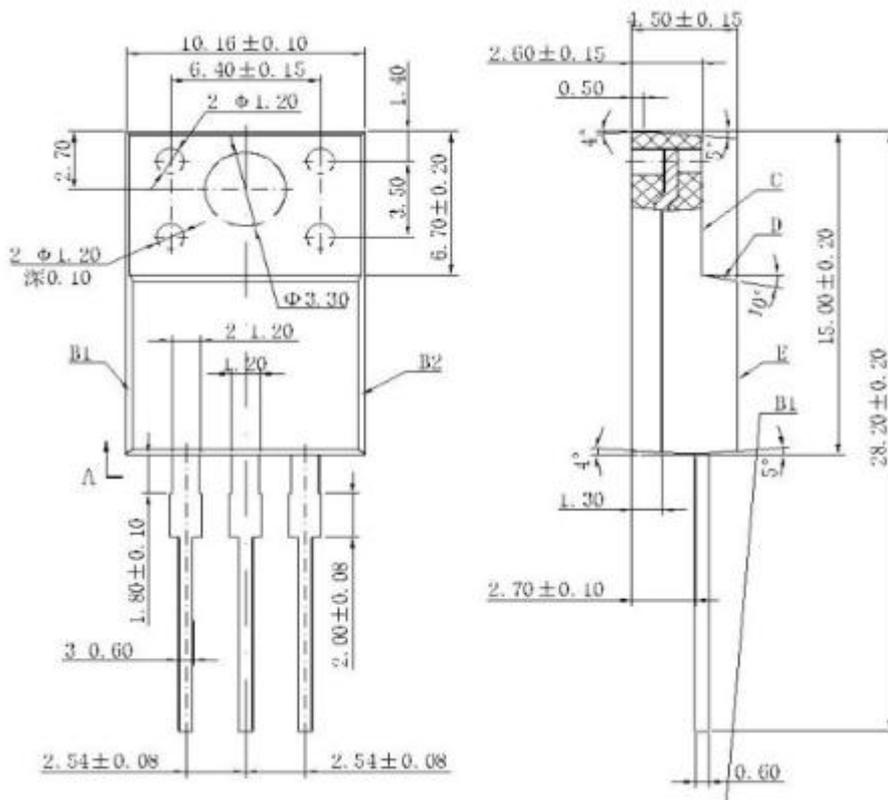
ELECTRICAL CHARACTERISTICS (T_a=25°C)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V _F	Maximum Instantaneous Forward Voltage	I _F = 30A ;T _j =25 °C I _F = 30A ;T _j =125 °C	2.2 2.0	V
I _R	Maximum Instantaneous Reverse Current	V _R = V _{RWM} ;T _j =25 °C V _R =V _{RWM} ;T _j =125 °C	100 150	μ A
t _{rr}	Maximum Reverse Recovery Time	I _F =30A;	90	ns

Fast Recovery Rectifier

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DIMENSIONAL DRAWING


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