

Fast Recovery Rectifier

HFR15A06F

FEATURES

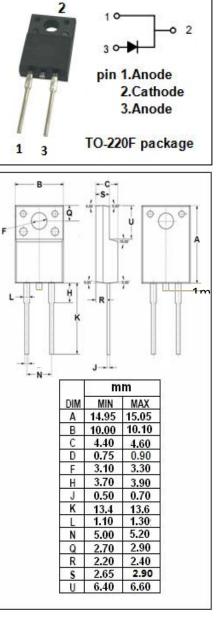
- · Fast switching for high efficiency
- Reverse voltage
- Avalanche energy rated
- 100% tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Switching power supply
- Power switching circuits
- General purpose

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
Vrrm Vrwm Vr	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	600	V
I _{F(AV)}	Average Rectified Forward Current	15	A
IFSM	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half- wave, single phase, 60Hz)	200	A
PD	Maximum power dissipation	100	W
TJ	Junction Temperature	-55~175	°C
T _{stg}	Storage Temperature Range	-55~175	°C





INCHANGE SEMICONDUCTOR

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THERMAL CHARACTERISTICS

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

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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V _F *	Maximum Instantaneous Forward Voltage	I _F = 15A ;Tj=25 ℃ I _F = 15A ;Tj=150 ℃	2.4 2	V
I _R	Maximum Instantaneous Reverse Current	V _R = V _{RWM;} V _R = V _{RWM;} Tj=150 ℃	10 500	μA
trr	Maximum Reverse Recovery Time	IF =15A;di/dt = 200A/µs	30	ns

*:Pulse test ,Pulse width=300us,duty cycle≤2%

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