

Ultrafast Rectifier

HFA16TA60C

FEATURES

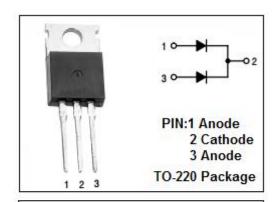
- Ultrafast with soft recovery
- Very Low I_{RRM}
- Popular TO-220 package
- · Avalanche energy rated
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

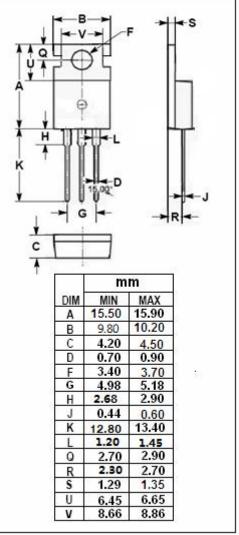
APPLICATIONS

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

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
VRRM VRWM VR	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	600	V
I _{F(AV)}	Average Rectified Forward Current Per Leg Total device	8 16	А
IFSM	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half-wave, single phase, 60Hz)	60	А
P _D	Maximum power dissipation	36	W
TJ	Junction Temperature	-55~150	$^{\circ}$ C
T _{stg}	Storage Temperature Range	-55~150	°C





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Fast Recovery Rectifier

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THERMAL CHARACTERISTICS

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

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

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V_{BR}	Cathode Anode Breakdown Voltage	I _R = 100μA	600		V
V _{F*}	Maximum Instantaneous Forward Voltage	I _F =8A ;Tj=25°C I _F = 8A ;Tj=125°C		1.7 1.7	V
I _{R*}	Maximum Instantaneous Reverse Current	V _R = V _{RWM} V _R = V _{RWM} ; Tj=125°C		5 500	μ Α
t _{rr}	Maximum Reverse Recovery Time	I _F =1A;di/dt = 50A/μs		25	ns

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

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