

Fast Recovery Rectifier

FFH60UP60S

FEATURES

- Guarding for over voltage protection
- Dual rectifier construction, positive center tap
- · Metal of silicon rectifier, majority carrier conduction
- · Low forward voltage, high efficiency
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Uninterruptible power supplies
- Rectifier in switch mode power supplies
- · Ultrasonic cleaners and welders

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	60	A
IFSM	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half-wave, single phase, 60Hz)	300	А
TJ	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-65~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.4	°C/W



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SYMBOL	PARAMETER	CONDITIONS	МАХ	UNIT
VF	Maximum Instantaneous Forward Voltage	I ⊢= 60A ;Tj=25 ℃	1.7	V
		I ⊢= 60A ;Tj=125℃	1.5	V
I _R	Maximum Instantaneous Reverse Current	V _R = V _{RWM;} Tj=25°C	100	μA
		V _R = V _{RWM;} Tj=125°C	500	μA
trr	Maximum Reverse Recovery Time	I _F =1.0A;Tj=25°C	80	ns

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

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