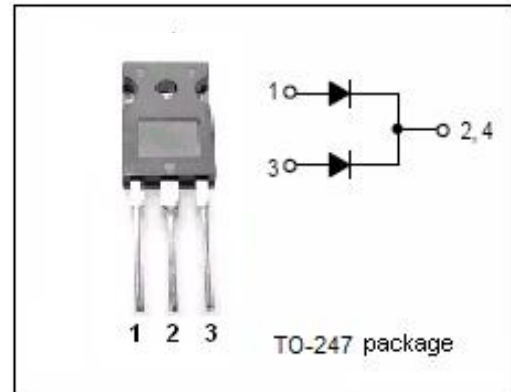


Ultrafast Rectifier
DESC60-06A
FEATURES

- Very short recovery time
- Extremely low switching losses
- Low forward voltage, high efficiency
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- These devices are ideally suited for HF welding, power converters and other applications where switching losses are not significant portion of the total losses.


ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM}	Peak Repetitive Reverse Voltage	600	V
I _{F(AV)}	Average Rectified Forward Current	60	A
I _{FSM}	Non-repetitive Peak Surge Current	250	A
T _J	Max.Junction Temperature	175	°C
T _J	Max.Junction Temperature	175	°C
T _{stg}	Storage Temperature Range	-55~175	°C

ELECTRICAL CHARACTERISTICS(T_a=25°C) (Pulse Test: Pulse Width=300 μs, Duty Cycle≤2%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V _F	Maximum Instantaneous Forward Voltage	I _F = 30A; T _J =25°C I _F = 30A; T _J =150°C	1.6 1.25	V
I _R	Maximum Instantaneous Reverse Current	V _R =V _{RRM} ; T _J =25°C V _R =V _{RRM} ; T _J =150°C	250 1	μA mA
t _{rr}	Maximum Reverse Recovery Time	I _F =1.0A;	35	ns

