

Ultrafast Rectifier

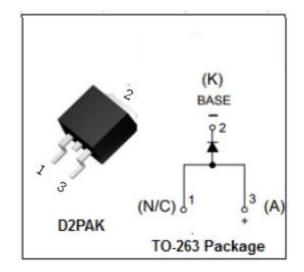
HFA08TB60S

FEATURES

- · Ultrafast Recovery
- Ultrasoft Recovery
- Very Low IRRM
- Very Low Qrr
- · Specified at Operating Conditions
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Switching power supply
- · Power switching circuits
- · High speed power switching



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
IF(AV)	Average Rectified Forward Current @Tc=100°C;Square Wave; Duty=1/2	8	A
IFSM	Nonrepetitive Peak Surge Current 8.3ms single half sine-wave superimposed on rated load conditions	60	А
P _D	Maximum Power Dissipation@T _C =25 ℃	36	w
TJ	Junction Temperature	150	$^{\circ}$
Tstg	Storage Temperature Range	-55~150	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	3.5	°C/W



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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
VFM	Max Forward Voltage	I _F =8A ;Tc=25°C I _F =16A ;Tc=25°C I _F =8A ;Tc=125°C	1.7 2.1 1.7	V
I _{RM}	Max Reverse Leakage Current	V _R = V _{RWM} Tc=25℃ V _R = V _{RWM} Tc=125℃	5 500	uA
trr	Maximum Reverse Recovery Time	I _F =8A;diF/dt=200A/ μ s,V _R =100V	55	ns



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