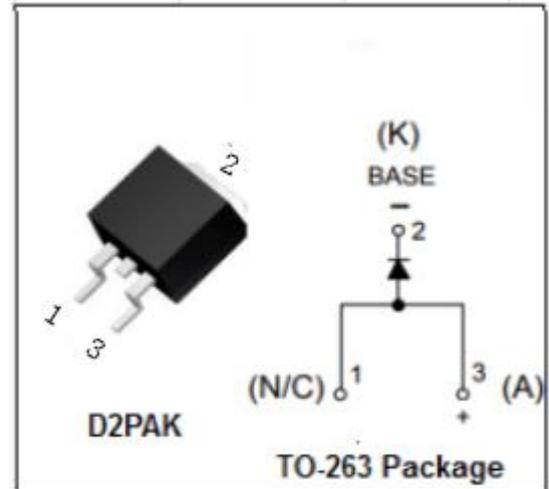


Ultrafast Rectifier
HFA08TB60S
FEATURES

- 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 (T_a=25°C)

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 @T _c =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	A
P _D	Maximum Power Dissipation @T _c =25°C	36	W
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°C

THERMAL CHARACTERISTICS

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

Ultra fast Rectifier

HFA08TB60S

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

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

NOTICE:

ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.

ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications.

ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.