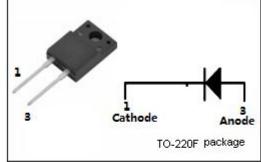


Ultrafast Recovery Rectifier

STTH8S06FP

FEATURES

- · Low forward voltage drop
- · High Current Capability
- · High reliability
- High surge Current Capability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

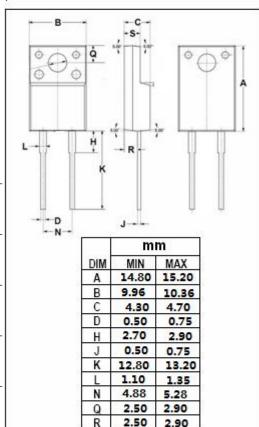


APPLICATIONS

• Designed for use in power supplies and power conversions System, motor drive, and other power applications.



SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} V _{RWM} V _R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	600	V
I _{F(AV)}	Average Rectified Forward Current (Rated V _R)	8	А
IFSM	Non repetitive Peak Surge Current (Surge applied at rated load conditions half-wave, single phase, 60Hz)	60	А
TJ	Max. Junction Temperature	175	${\mathbb C}$
T _{stg}	Storage Temperature Range	-65~175	${\mathbb C}$



2.80



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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	5.5	°C/W

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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
VF	Instantaneous Forward Voltage	I _F = 8A I _F = 8A;T _J =125℃	3.4 1.9	V
I _R	Instantaneous Reverse Current	V _{RRM} = 600V V _{RRM} = 600V;T _J =125℃	20 200	μ А
t _{rr}	Reverse Recovery Time	I _F = 1A	18	ns

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