

Ultrafast Rectifier

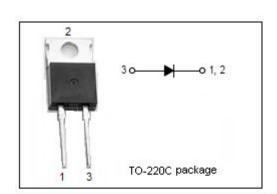
DSEI8-06A

FEATURES

- Ultrafast Recovery Time
- · Very short recovery time
- · Extremely low switching losses
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

 Designed for use in switching power supplies and other power Switching applications.

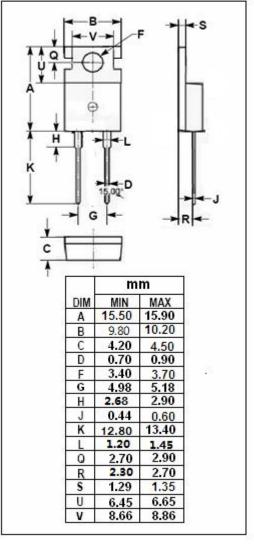


ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

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	8	А
IFSM	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half-wave, single phase, 60Hz)	110	Α
TJ	Junction Temperature	-40~150	${\mathbb C}$
T _{stg}	Storage Temperature Range	-40~150	${\mathbb C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	2.5	°C/W



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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
VF	Maximum Instantaneous Forward Voltage	I _F = 8A ;Tj=25 °C I _F = 8A ;Tj=150 °C	1.5 1.3	V
IR	Maximum Instantaneous Reverse Current	V _R = V _{RWM} ; Tj=25 °C V _R =0.8*V _{RWM} ; Tj=25 °C V _R =0.8* V _{RWM} ; Tj=125 °C	20 10 1500	μ А
trr	Maximum Reverse Recovery Time	I _F =1A	50	ns



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