

Ultra fast Rectifier

D5L60

FEATURES

- With TO-220F packaging
- Low switching loss
- · High surge current capability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



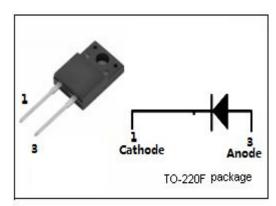
APPLICATIONS

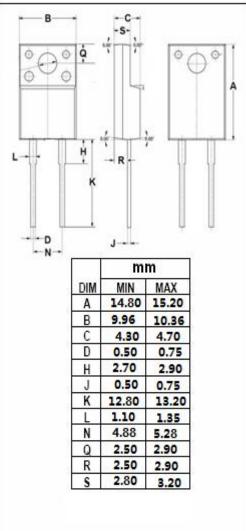
- Switching power supply
- · Power switching circuits
- · General rectification



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
VRRM VRWM VR	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage tw=500ns;duty=1/40	600	V
IF(AV)	Average Rectified Forward Current @Tc=75°C	5	А
IFSM	Nonrepetitive Peak Surge Current 8.3ms single half sine-wave superimposed on rated load conditions;One shot	100	А
TJ	Junction Temperature	-55~150	$^{\circ}$
Tstg	Storage Temperature Range	-55~150	\mathbb{C}







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THERMAL CHARACTERISTICS

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

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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V _F	Maximum Instantaneous Forward Voltage	I _F =5A	1.5	V
I _R	Maximum Instantaneous Reverse Current	V _R = V _{RWM;} Tj=25°C V _R = V _{RWM;} Tj=125°C	10 80	μА
t _{rr}	Maximum Reverse Recovery Time	I _F =0.5A;I _R =1A	50	ns



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