

Ultrafast Recovery Diode
RURP1560
FEATURES

- Ultrafast recovery time
- Low forward voltage, high efficiency

APPLICATIONS

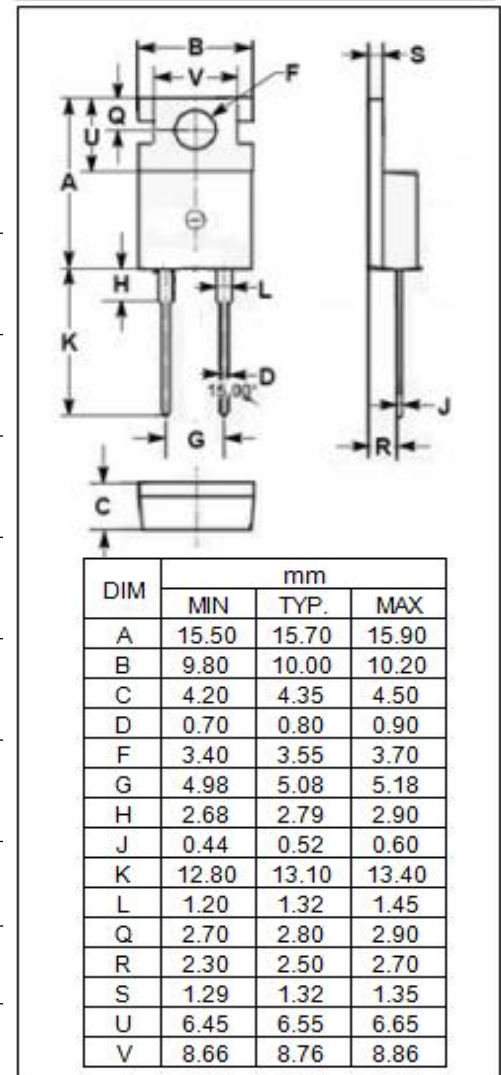
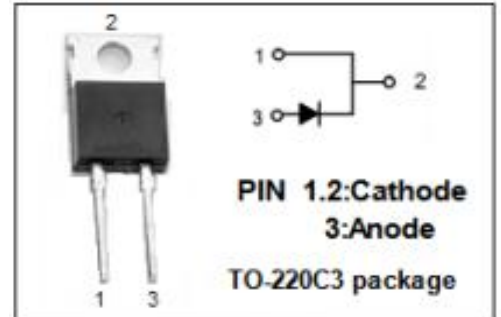
- Switching power supply
- Power switching circuits

ABSOLUTE MAXIMUM RATINGS (T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} V _{VRM} V _R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	600	V
I _{F(AV)}	Average Rectified Forward Current	15	A
I _{FSM}	Non-repetitive Peak Surge Current (Surge applied at rated load conditions half-wave, single phase, 60Hz)	200	A
T _J	Junction Temperature	-55~175	°C
T _{stg}	Storage Temperature Range	-55~175	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.5	°C/W



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ELECTRICAL CHARACTERISTICS($T_a=25^\circ\text{C}$) (Pulse Test: Pulse Width=300 μs , Duty Cycle \leq 2%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V_F	Maximum Instantaneous Forward Voltage	$I_F=15\text{A}; T_j=25^\circ\text{C}$ $I_F=5\text{A}; T_j=150^\circ\text{C}$	1.5 1.2	V
I_R	Maximum Instantaneous Reverse Current	$V_R=V_{RWM}$ $V_R=V_{RWM}; T_j=150^\circ\text{C}$	0.1 0.5	mA
t_{rr}	Maximum Reverse Recovery Time	$I_F=1\text{A}; dI_F/dt=100\text{A}/\mu\text{s}$ $I_F=15\text{A}; dI_F/dt=100\text{A}/\mu\text{s}$	55 60	ns

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