

FEATURES

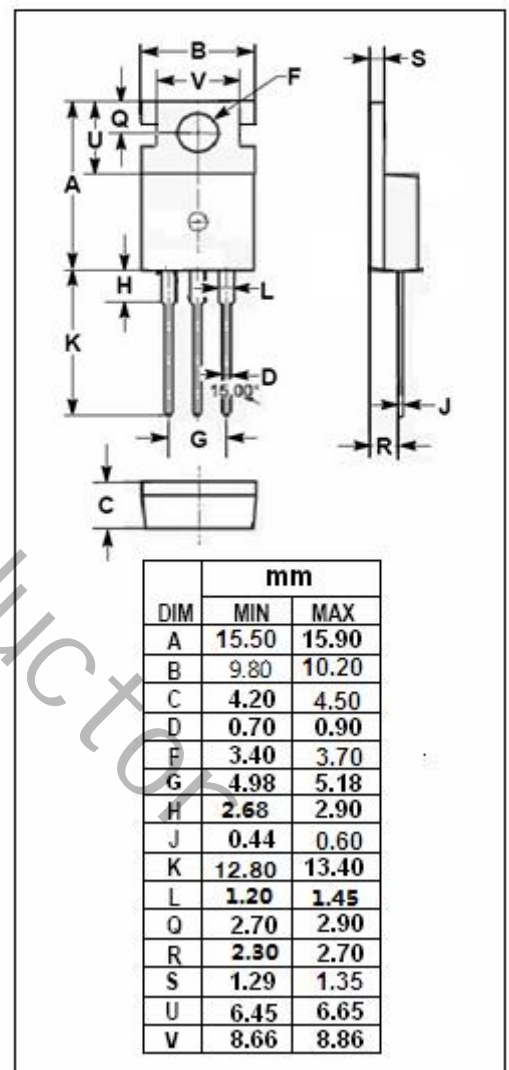
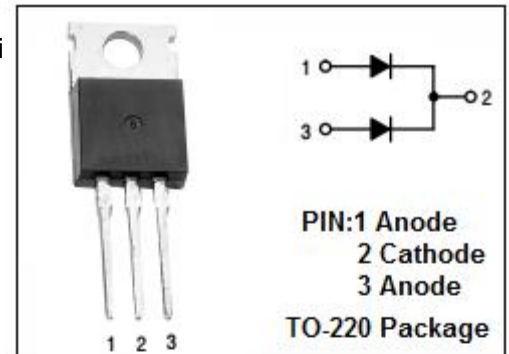
- Plastic package has Underwriters Laboratory Flammability Classification
- Ultrafast 35 and 60 Nanosecond Recovery Times
- 175° C Operating Junction Temperature
- Popular TO-220 Package
- High Temperature Glass Passivated Junction
- High Voltage Capability to 600 V
- Low Leakage Specified @ 150° C Case Temperature
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Switching power supply
- Power switching circuits
- General purpose

ABSOLUTE MAXIMUM RATINGS (T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _R RM V _R WM V _R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	600	V
I _{F(AV)}	Average Rectified Forward Current Per Leg: T _c =150°C; Total Device:	8.0 16	A
I _{F(RSM)}	RMS Forward Current T _c =150°C 20KHz; Squre wave	16	A
I _{FSM}	Nonrepetitive Peak Surge Current Single phase;60HZ;	100	A
T _J	Junction Temperature	-65~175	°C
T _{stg}	Storage Temperature Range	-65~175	°C



THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R_{thj-c}	Thermal Resistance, Junction to Case	2.0	$^{\circ}C/W$

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

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V_F	Maximum Instantaneous Forward Voltage	$I_F=10A; T_j=25^{\circ}C$ $I_F=10A; T_j=150^{\circ}C$	1.2 1.5	V
I_R	Maximum Instantaneous Reverse Current	Rated DC Voltage, $T_j=25^{\circ}C$ Rated DC Voltage, $T_j=125^{\circ}C$	500 10	mA
t_{rr}	Maximum Reverse Recovery Time	$I_F=0.5A; I_R=1.0A; I_{REC}=0.25A$	50	ns

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