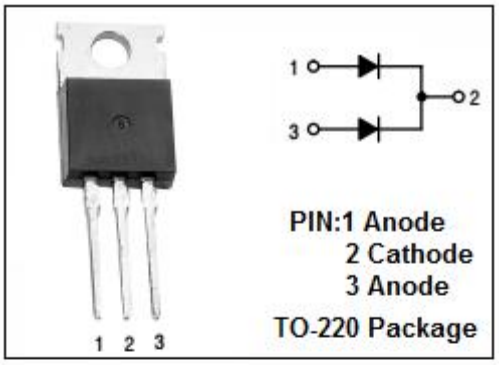
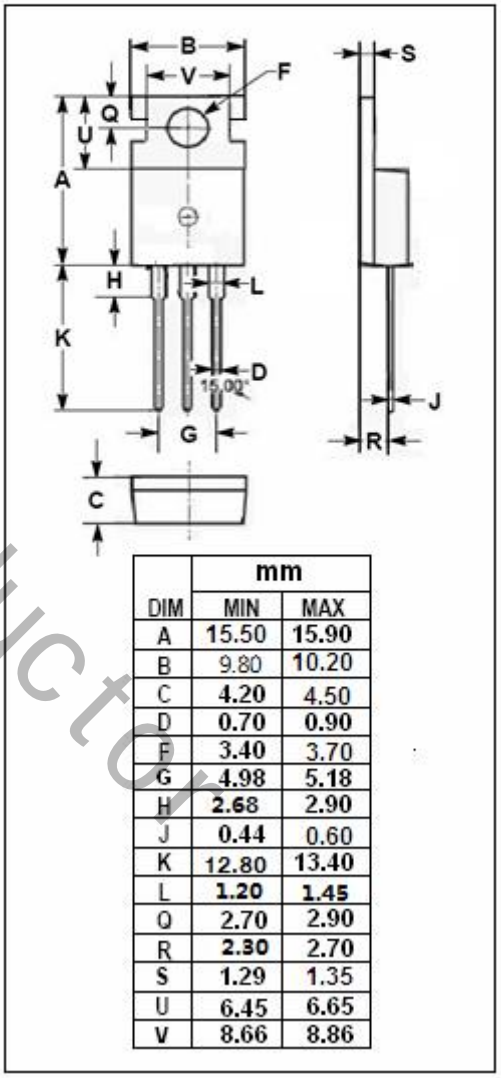
FEATURES

- Plastic package has Underwriters Laboratory Flammability Classificati
- 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





DIM	mm MIN	MAX
A	15.50	15.90
B	9.80	10.20
C	4.20	4.50
D	0.70	0.90
F	3.40	3.70
G	4.98	5.18
H	2.68	2.90
J	0.44	0.60
K	12.80	13.40
L	1.20	1.45
Q	2.70	2.90
R	2.30	2.70
S	1.29	1.35
U	6.45	6.65
V	8.66	8.86

APPLICATIONS

- Switching power supply
- Power switching circuits
- General purpose

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

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 Per Leg: Tc=150℃; Total Device:	8.0 16	A
$I_{F(RSM)}$	RMS Forward Current Tc=150℃ 20KHz; Squqre wave	16	A
I_{FSM}	Nonrepetitive Peak Surge Current Single phase;60HZ;	100	A
T_J	Junction Temperature	-65~175	℃
T_{stg}	Storage Temperature Range	-65~175	℃

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j\text{-}c}$	Thermal Resistance,Junction to Case	2.0	℃/W

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

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