

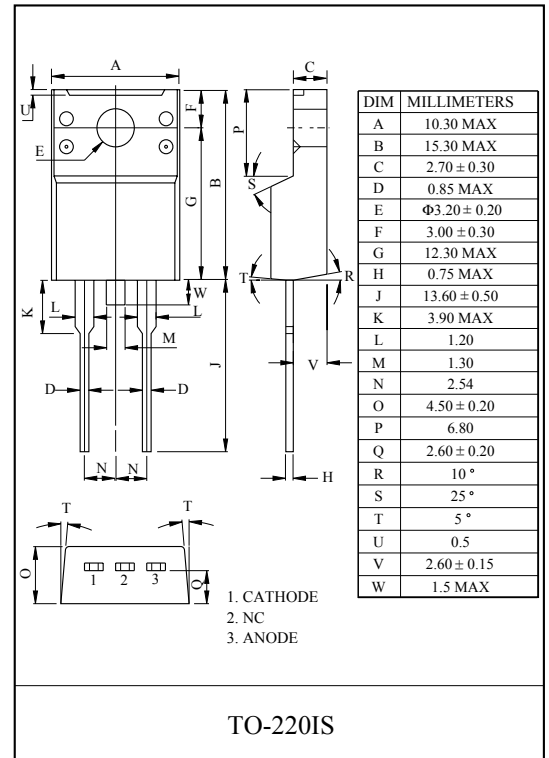
SWITCHING TYPE POWER SUPPLY APPLICATION.
CONVERTER & CHOPPER APPLICATION.

FEATURES

- Average Output Rectified Current
: $I_O=5A$ ($T_c=115^\circ C$).
- Repetitive Peak Reverse Voltage
: $V_{RRM}=90V$.
- Fast Reverse Recovery Time : $t_{rr}=35ns$.
- Low Peak Forward Voltage : $0.70V(Typ.)$

MAXIMUM RATING ($T_a=25^\circ C$)

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|--|-----------|-----------|------------|
| Repetitive Peak Reverse Voltage | V_{RRM} | 90 | V |
| Average Output Rectified Current ($T_c=115^\circ C$) | I_O | 5 | A |
| Peak One Cycle Surge Forward Current (Non-Repetitive 60Hz) | I_{FSM} | 100 | A |
| Junction Temperature | T_j | -40 ~ 150 | $^\circ C$ |
| Storage Temperature Range | T_{stg} | -55 ~ 150 | $^\circ C$ |



ELECTRICAL CHARACTERISTICS ($T_a=25^\circ C$)

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|---------------------------------|---------------|------------------------------|------|------|------|--------------|
| Peak Forward Voltage | V_{FM} | $I_{FM}=5A, T_c=25^\circ C$ | - | 0.70 | 0.75 | V |
| Repetitive Peak Reverse Current | I_{RRM} | $V_{RRM}=\text{Rated}$ | - | - | 3 | mA |
| Reverse Recovery Time | t_{rr} | $I_F=1.0A, di/dt=-20A/\mu s$ | - | - | 35 | ns |
| Thermal Resistance | $R_{th(j-c)}$ | Juction to Case | - | - | 4.5 | $^\circ C/W$ |

B5A90VI

