

SWITCHING TYPE POWER SUPPLY APPLICATION  
CONVERTER & CHOPPER APPLICATION.

### FEATURES

- Ultra-Fast Recovery Time for High Efficiency.
- Low Forward Voltage Drop, High Current Capability, and Low Power Loss.

### APPLICATION

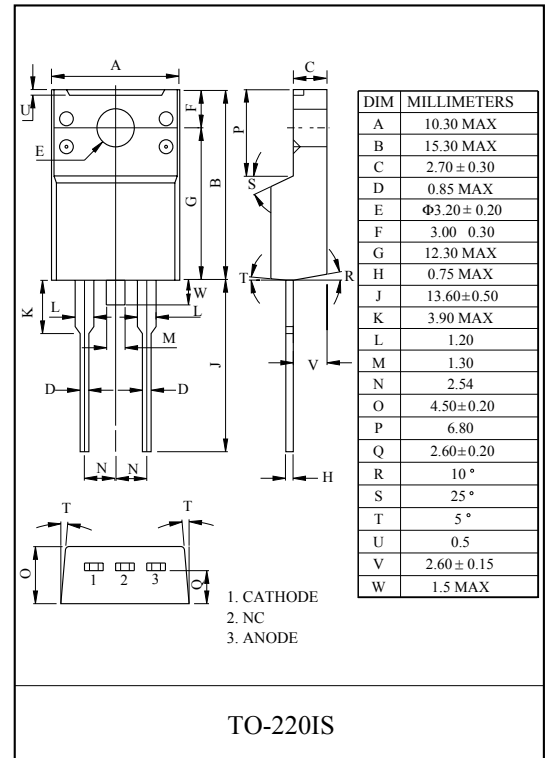
- Switching Power Supply.
- Home Appliances, Office Equipment.
- Telecommunication, Factory Automation.

### MAXIMUM RATINGS (Ta=25°C)

| CHARACTERISTIC  | SYMBOL    | RATING    | UNIT |
|---|-----------|-----------|------|
| Maximum Reverse Voltage                               | $V_{RM}$  | 200       | V    |
| Average Output Rectified Current (Tc=125°C)           | $I_O$     | 5         | A    |
| Peak One Cycle Surge Forward Current (Non-Repetitive) | $I_{FSM}$ | 50 (50Hz) | A    |
|   |           | 60 (60Hz) |      |
| Junction Temperature                                  | $T_j$     | -40~150   | °C   |
| Storage Temperature Range                             | $T_{stg}$ | -40~150   | °C   |

### ELECTRICAL CHARACTERISTICS (Ta=25°C)

| CHARACTERISTIC        | SYMBOL        | TEST CONDITION        | MIN. | TYP. | MAX. | UNIT |
|-----------------------|---------------|-----------------------|------|------|------|------|
| Peak Forward Voltage  | $V_{FM}$      | $I_{FM}=5.0A$         | -    | -    | 0.98 | V    |
| Reverse Current       | $I_{RM}$      | $V_{RM}=\text{Rated}$ | -    | -    | 10   | μA   |
| Reverse Recovery Time | $t_{rr}$      | $I_F=I_R=100mA$       | -    | -    | 50   | ns   |
| Thermal Resistance    | $R_{th(j-c)}$ | Junction to Case      | -    | -    | 4.0  | °C/W |



# U5A2CI

