

SWITCHING TYPE POWER SUPPLY APPLICATION  
CONVERTER & CHOPPER APPLICATION.

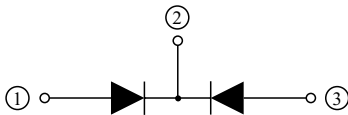
### FEATURES

- 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.

### POLARITY



### MAXIMUM RATINGS (Ta=25 °C)

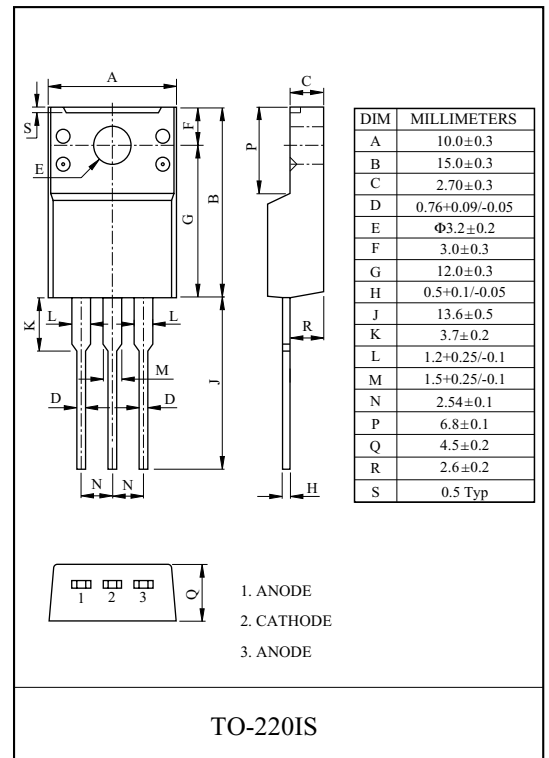
| CHARACTERISTIC  | SYMBOL    | RATING                 | UNIT |
|---|-----------|------------------------|------|
| Maximum Reverse Voltage                                 | $V_{RM}$  | 300                    | V    |
| Average Output Rectified Current<br>(Tc=125 °C) (Note1) | $I_O$     | 10                     | A    |
| Peak One Cycle Surge Forward Current (Non-Repetitive)   | $I_{FSM}$ | 50 (50Hz)<br>60 (60Hz) | A    |
| Junction Temperature                                    | $T_j$     | -40~150                | °C   |
| Storage Temperature Range                               | $T_{stg}$ | -40~150                | °C   |

(Note1) : Average forward current of centertap full wave connection.

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

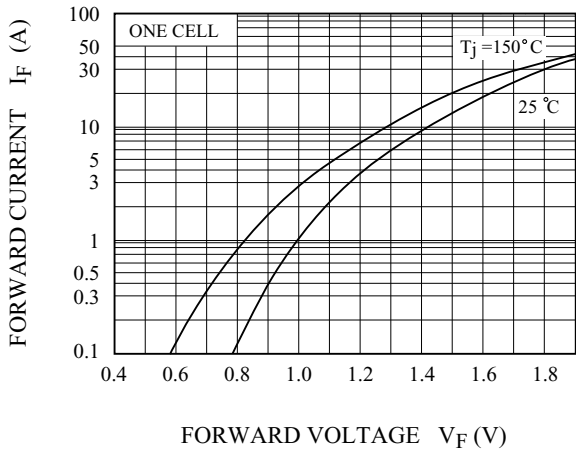
| CHARACTERISTIC                | SYMBOL        | TEST CONDITION        | MIN. | TYP. | MAX. | UNIT    |
|-------------------------------|---------------|-----------------------|------|------|------|---------|
| Peak Forward Voltage (Note2)  | $V_{FM}$      | $I_{FM}=5A$           | -    | -    | 1.3  | V       |
| Reverse Current (Note2)       | $I_{RM}$      | $V_{RM}=\text{Rated}$ | -    | -    | 10   | $\mu A$ |
| Reverse Recovery Time (Note2) | $t_{rr}$      | $I_F=I_R=100mA$       | -    | -    | 60   | ns      |
| Thermal Resistance (Note2)    | $R_{th(j-c)}$ | Junction to Case      | -    | -    | 4.0  | °C/W    |

(Note2) : A Value of one cell.

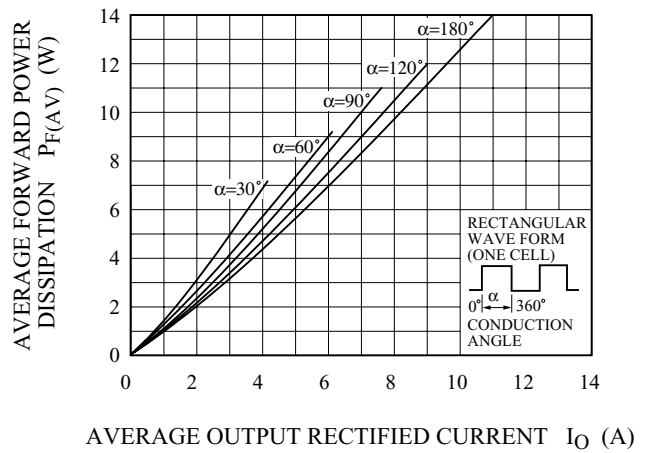


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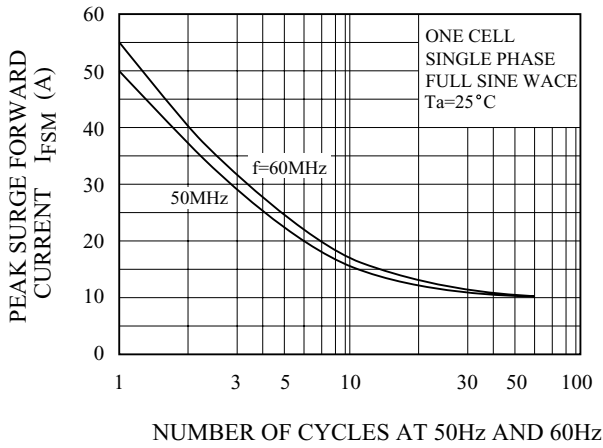
$I_F - V_F$



$P_{F(AV)} - I_O$



SURGE FORWARD CURRENT (NON - REPETITIVE)



$T_c - I_O$

