

### HIGH SPEED RECTIFIER APPLICATION.

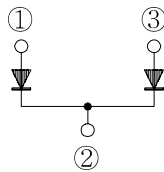
#### FEATURES

- Average Output Rectified Current :  $I_O=10A(T_c=108^{\circ}C)$ .
- Repetitive Peak Reverse Voltage :  $V_{RRM}=200V$ .
- Rectifier Stack of Single Phase Center Tap Type.

#### POLARITY

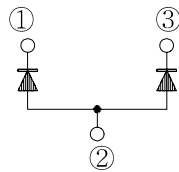
•CC TYPE

•CATHODE COMMON



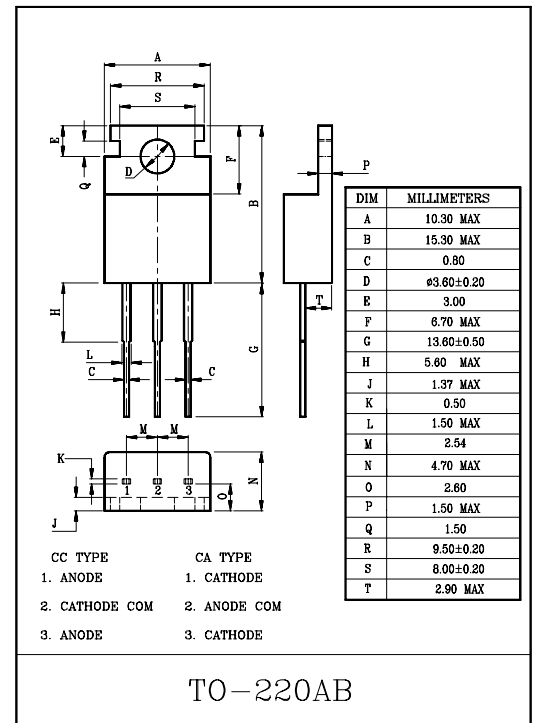
•CA TYPE

•ANODE COMMON



#### MAXIMUM RATINGS( $T_a=25^{\circ}C$ )

| CHARACTERISTIC   | SYMBOL    | RATING                 | UNIT        |
|--|-----------|------------------------|-------------|
| Repetitive Peak Reverse Voltage                                | $V_{RRM}$ | 200                    | V           |
| Average Output Rectified Current ( $T_c=108^{\circ}C$ ) (Fig.) | $I_O$     | 10                     | A           |
| Peak One Cycle Surge Forward Current (Non-Repetitive)          | $I_{FSM}$ | 60 (50Hz)<br>70 (60Hz) | A           |
| Junction Temperature   | $T_j$     | $-40 \sim 150$         | $^{\circ}C$ |
| Storage Temperature Range                                      | $T_{stg}$ | $-40 \sim 150$         | $^{\circ}C$ |



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

| CHARACTERISTIC                         | SYMBOL        | TEST CONDITION         | MIN. | TYP. | MAX. | UNIT          |
|--|---------------|------------------------|------|------|------|---------------|
| Peak Forward Voltage (Note)            | $V_{FM}$      | $I_{FM}=5A$            | -    | -    | 1.4  | V             |
| Repetitive Peak Reverse Current (Note) | $I_{RRM}$     | $V_{RRM}=\text{Rated}$ | -    | -    | 10   | $\mu A$       |
| Reverse Recovery Time                  | $t_{rr}$      | $I_F=0.1A, I_R=0.1A$   | -    | -    | 400  | nS            |
| Thermal Resistance                     | $R_{th(j-c)}$ | Junction to Case       | -    | -    | 3.0  | $^{\circ}C/W$ |

Note : A Value of one cell.

#### Fig. EXAMPLE OF RECTIFYING CIRCUIT

