

TOSHIBA RECTIFIER MODULE SILICON DIFFUSED TYPE

# 30L6P45

THREE PHASE FULL WAVE BRIDGE APPLICATIONS  
 INVERTER EQUIPMENT FOR AC MOTOR CONTROL  
 CHOPPER EQUIPMENT FOR DC MOTOR CONTROL  
 DC SUPPLY FOR BATTERY  
 OTHER POWER CONVERSION EQUIPMENT

Unit in mm

- Repetitive Peak Reverse Voltage :  $V_{RRM}=800V$
- Average Output Rectified Current :  $I_O=30A$
- Isolation Voltage :  $V_{Isol}=2000V$  AC 60s
- Single In-line Package

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

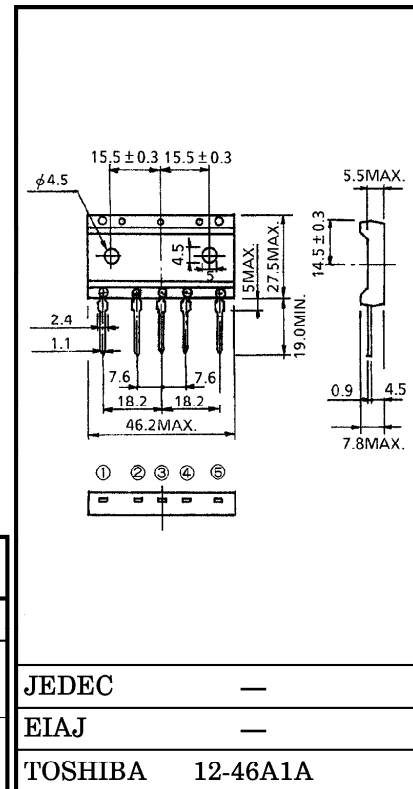
| CHARACTERISTIC  | SYMBOL     | RATING     | UNIT       |
|---|------------|------------|------------|
| Repetitive Peak Reverse Voltage                       | $V_{RRM}$  | 800        | V          |
| Average Output Rectified Current ( $T_c=97^\circ C$ ) | $I_O$      | 30         | A          |
| Peak One Cycle Surge Forward Current (Non-Repetitive) | $I_{FSM}$  | 400 (50Hz) | A          |
|   |            | 440 (60Hz) |            |
| Junction Temperature                                  | $T_j$      | -40~150    | $^\circ C$ |
| Storage Temperature                                   | $T_{stg}$  | -40~125    | $^\circ C$ |
| Screw Torque (Note 1)                                 | —          | 1.5        | N·m        |
| Isolation Voltage (AC, $t=60s$ )                      | $V_{Isol}$ | 2000       | V          |

Note 1 : Recommended torque 1.2 Nm

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

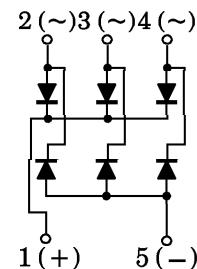
| CHARACTERISTIC                  | SYMBOL                | TEST CONDITION                     | MIN. | MAX. | UNIT         |
|---------------------------------|-----------------------|------------------------------------|------|------|--------------|
| Repetitive Peak Reverse Current | $I_{RRM}$<br>(Note 2) | $V_{RRM}=800V$                     | —    | 100  | $\mu A$      |
| Peak Forward Voltage            | $V_{FM}$<br>(Note 2)  | $I_{FM}=30A$                       | —    | 1.2  | V            |
| Thermal Resistance              | $R_{th(j-c)}$         | DC (Total) (Junction-Case)         | —    | 0.8  | $^\circ C/W$ |
|                                 | $R_{th(j-a)}$         | Free Convection (Junction-Ambient) | —    | 15   | $^\circ C/W$ |

Note 2 : A value per rectifier unit.



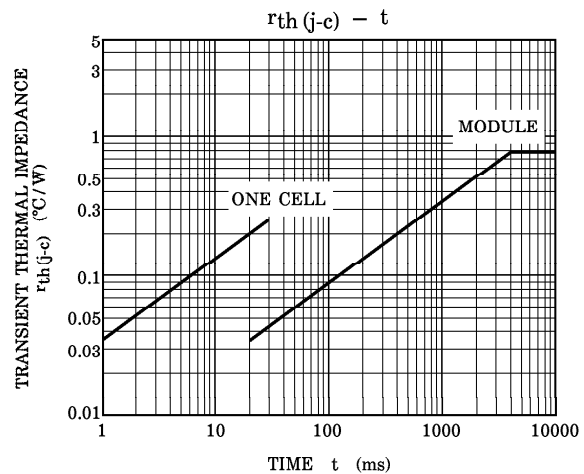
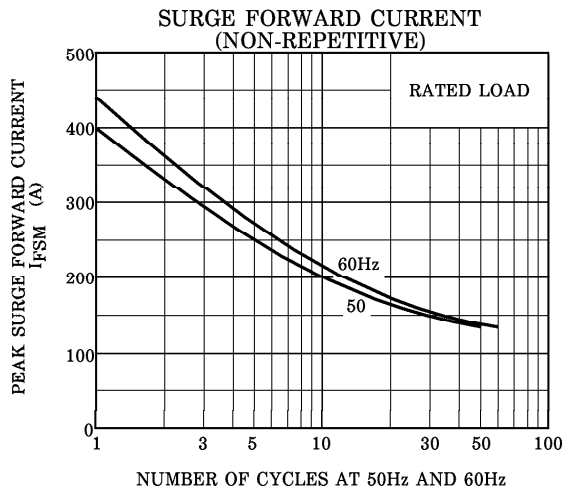
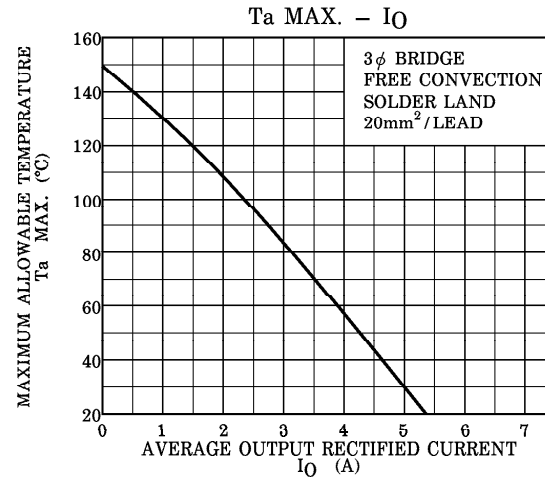
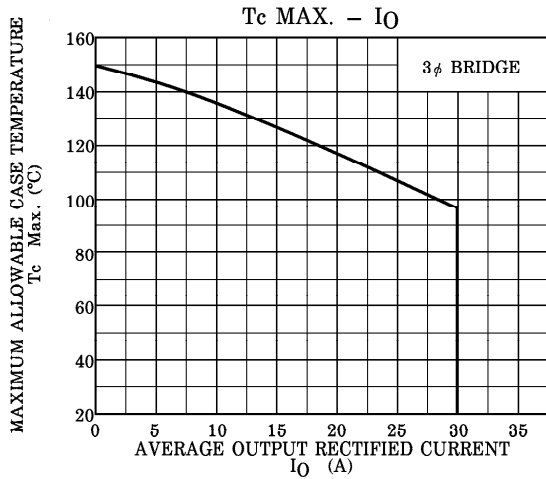
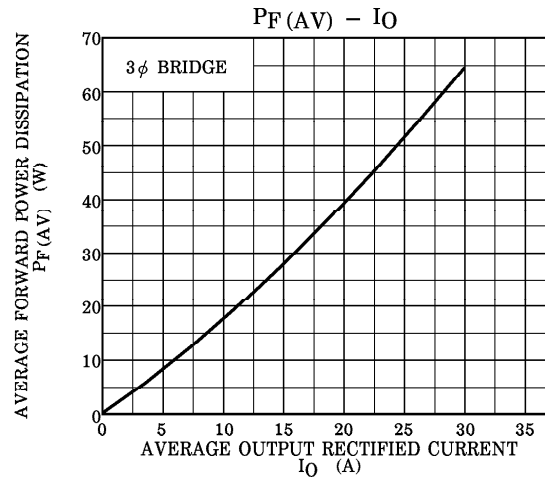
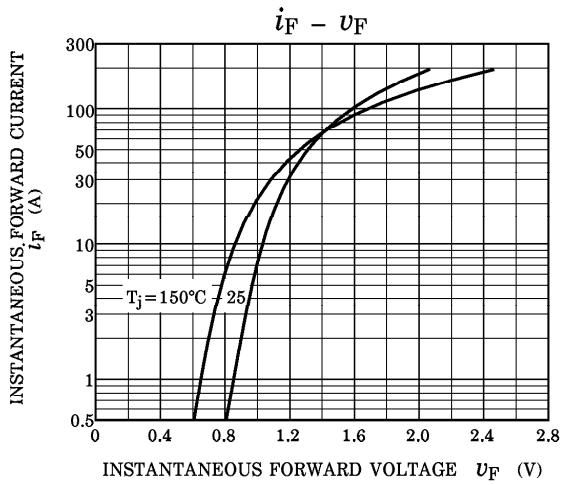
Weight : 24g

CONNECTION



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