

TOSHIBA RECTIFIER MODULE SILICON DIFFUSED TYPE

20U6P45

- 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

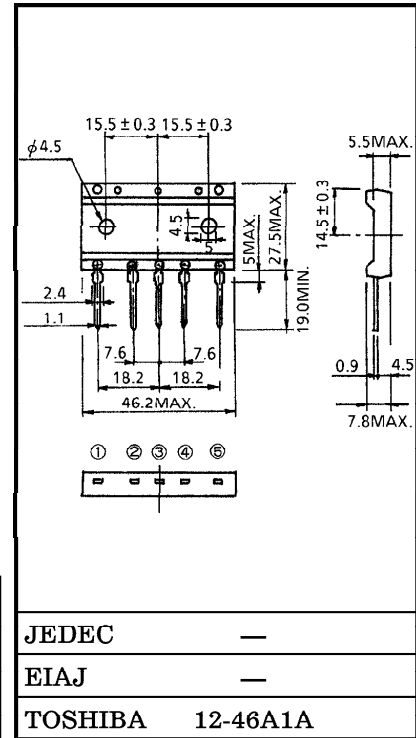
- Repetitive Peak Reverse Voltage : $V_{RRM}=1600V$
- Average Output Rectified Current : $I_O=20A$
- Isolation Voltage : $V_{Isol}=2500V$ AC 60s
- Single In-line Package

MAXIMUM RATINGS (Ta = 25°C)

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|---|------------|--------------------------|------|
| Repetitive Peak Reverse Voltage | V_{RRM} | 1600 | V |
| Average Output Rectified Current | I_O | 20 | A |
| Peak One Cycle Surge Forward Current (Non-Repetitive) | I_{FSM} | 200 (50Hz) 220 (60Hz) | A |
| Junction Temperature | T_j | -40~150 | °C |
| Storage Temperature | T_{stg} | -40~150 | °C |
| Screw Torque (Note 1) | — | 1.5 | N·m |
| Isolation Voltage (AC, t=60s) | V_{Isol} | 2500 | V |

(Note 1) : Recommended torque 1.2N·m

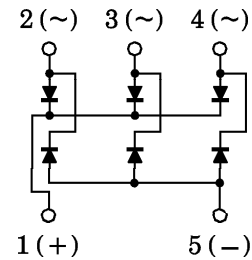
Unit in mm



| | |
|---------|----------|
| JEDEC | — |
| EIAJ | — |
| TOSHIBA | 12-46A1A |

Weight : 24g

CONNECTION



961001EAA1

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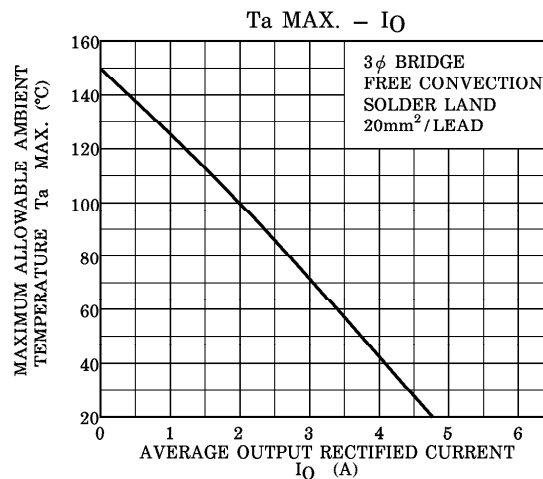
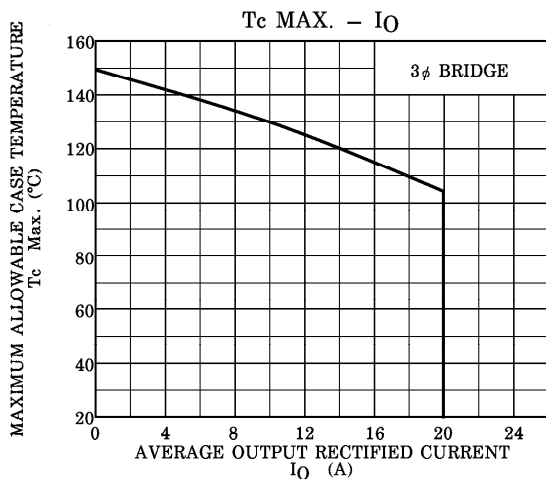
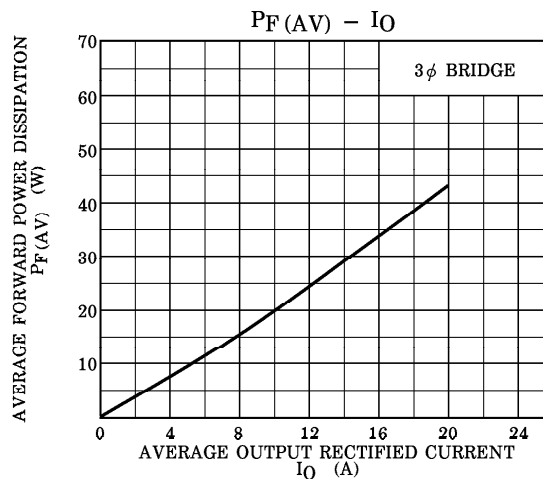
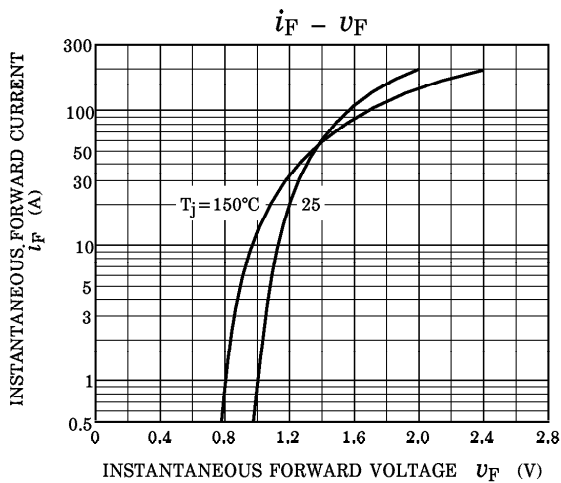
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● The information contained herein is subject to change without notice.

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|---------------------------------|-----------------------|------------------------------------|------|------|------|---------------|
| Repetitive Peak Reverse Current | I_{RRM} (Note 2) | $V_{RRM} = 1600V$ | — | — | 100 | μA |
| Peak Forward Voltage | V_{FM} (Note 2) | $I_{FM} = 20A$ | — | — | 1.2 | V |
| Thermal Resistance | $R_{th(j-c)}$ | DC (Total) (Junction-Case) | — | — | 1.0 | $^{\circ}C/W$ |
| | $R_{th(j-a)}$ | Free Convection (Junction-Ambient) | — | — | 15 | |

(Note 2) : A value per rectifier unit.



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