

5JLZ47

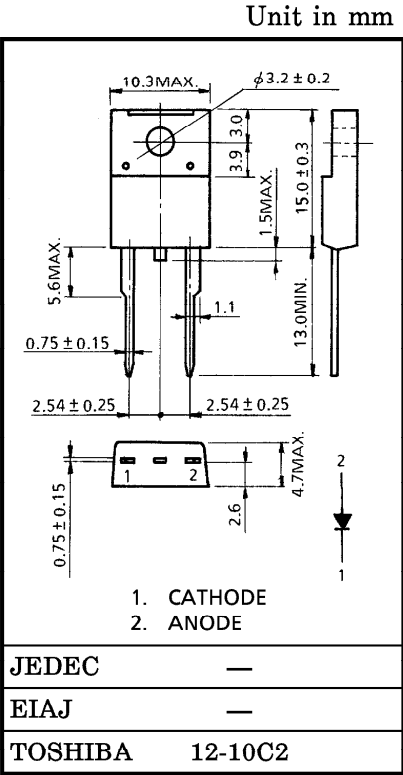
SWITCHING TYPE POWER SUPPLY APPLICATION

CONVERTER & CHOPPER APPLICATION

- Repetitive Peak Reverse Voltage :  $V_{RRM}=600V$
- Ultra Fast Reverse-Recovery Time :  $t_{rr}=50ns$
- Low Switching Losses and Low Output Noise.

MAXIMUM RATINGS

| CHARACTERISTIC                                        | SYMBOL    | RATING                 | UNIT |
|-------------------------------------------------------|-----------|------------------------|------|
| Repetitive Peak Reverse Voltage                       | $V_{RRM}$ | 600                    | V    |
| Average Output Rectified Current                      | $I_o$     | 5                      | A    |
| Peak One Cycle Surge Forward Current (Non-Repetitive) | $I_{FSM}$ | 50 (50Hz)<br>60 (60Hz) | A    |
| Junction Temperature                                  | $T_j$     | 150                    | °C   |
| Storage Temperature Range                             | $T_{stg}$ | -40~150                | °C   |

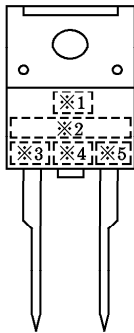


ELECTRICAL CHARACTERISTICS (Ta = 25°C)

Weight : 2.0g

| CHARACTERISTIC                  | SYMBOL        | TEST CONDITION               | MIN. | MAX. | UNIT    |
|---------------------------------|---------------|------------------------------|------|------|---------|
| Peak Forward Voltage            | $V_{FM}$      | $I_{FM}=5A$                  | —    | 2.0  | V       |
| Repetitive Peak Reverse Current | $I_{RRM}$     | $V_{RRM}=600V$               | —    | 50   | $\mu A$ |
| Reverse Recovery Time           | $t_{rr}$      | $I_F=2A, di/dt = -20A/\mu s$ | —    | 50   | ns      |
| Forward Recovery Time           | $t_{fr}$      | $I_F=1A$                     | —    | 150  | ns      |
| Thermal Resistance              | $R_{th(j-c)}$ | DC                           | —    | 4.0  | °C/W    |

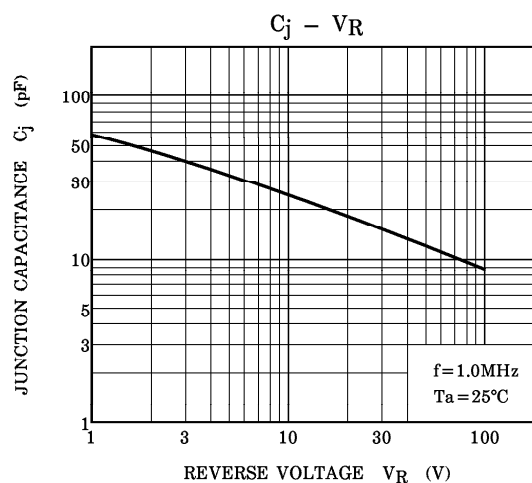
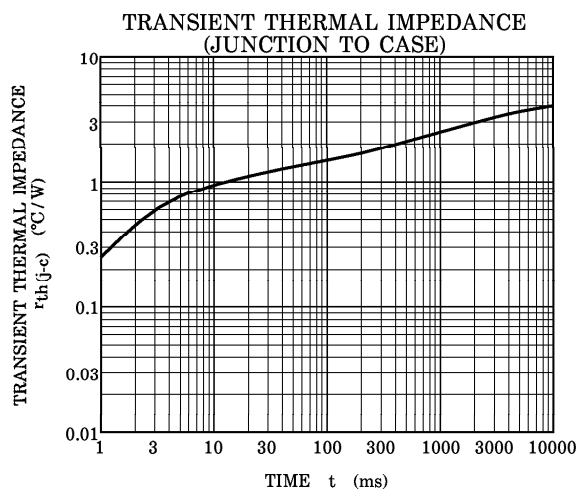
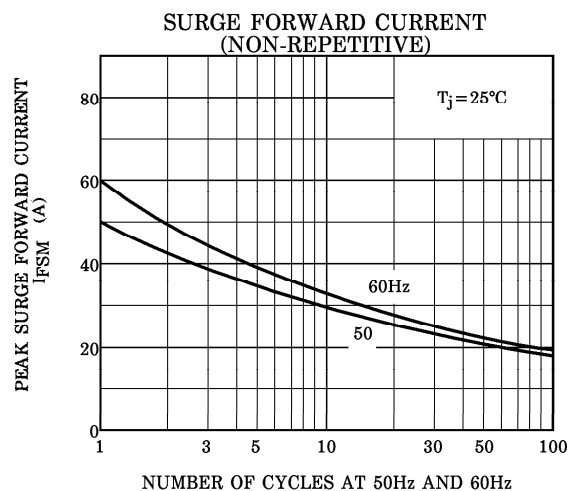
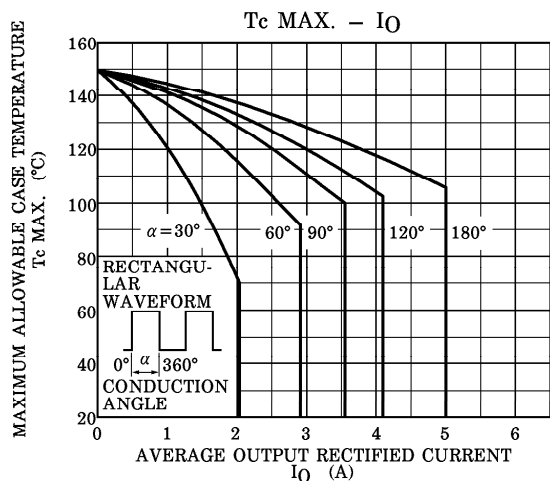
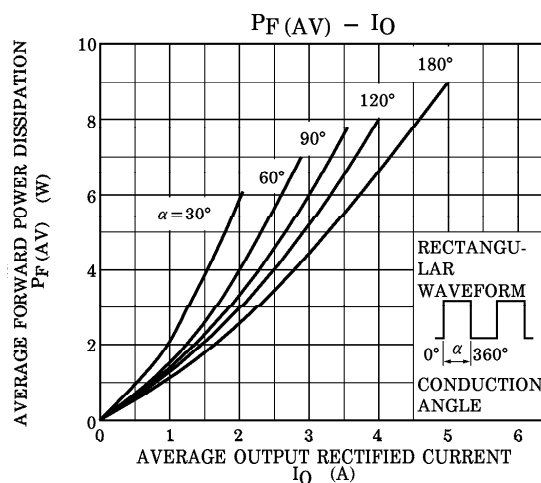
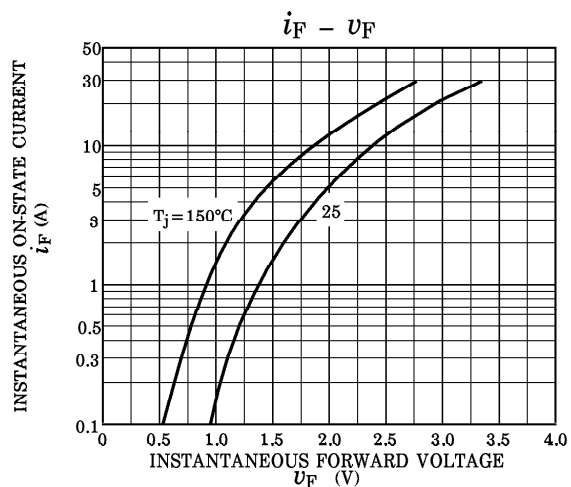
MARKING



| ※ Number | SYMBOL                                                                                                          | MARK   |
|----------|-----------------------------------------------------------------------------------------------------------------|--------|
| ※ 1      | Toshiba Product Mark                                                                                            |        |
| ※ 2      | TYPE 5JLZ47                                                                                                     | 5JLZ47 |
| ※ 3      | Polarity Mark                                                                                                   |        |
| ※ 4      | Lot Number<br><div>□ □ — Month (Starting from Alphabet A)<br/>□ — Year (Last Number of the Christian Era)</div> |        |

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