

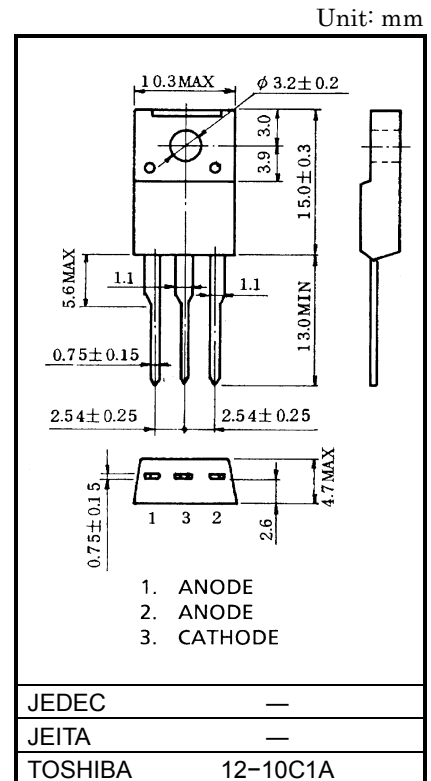
# 10JL2CZ47

## SWITCHING MODE POWER SUPPLY APPLICATION CONVERTER & CHOPPER APPLICATION

- Repetitive Peak Reverse Voltage :  $V_{RRM} = 600V$
- Average Output Rectified Current :  $I_O = 10A$
- Ultra Fast Reverse-Recovery Time :  $t_{rr} = 50ns$  (Max)
- Low Switching Losses and Output Noise.

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

| CHARACTERISTIC                                   | SYMBOL    | RATING                 | UNIT       |
|--------------------------------------------------|-----------|------------------------|------------|
| Repetitive Peak Reverse Voltage                  | $V_{RRM}$ | 600                    | V          |
| Average Output Rectified Current                 | $I_O$     | 10                     | A          |
| Peak One Cycle Surge Forward Current (Sine Wave) | $I_{FSM}$ | 50 (50Hz)<br>55 (60Hz) | A          |
| Junction Temperature                             | $T_j$     | -40~150                | $^\circ C$ |
| Storage Temperature Range                        | $T_{stg}$ | -40~150                | $^\circ C$ |
| Screw Torque                                     | —         | 0.6                    | N·m        |



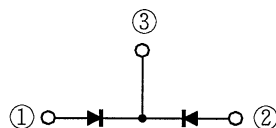
Weight: 2.0g

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

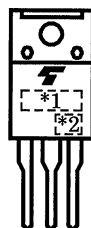
| CHARACTERISTIC                           | SYMBOL        | TEST CONDITION                     | MIN | TYP. | MAX | UNIT           |
|------------------------------------------|---------------|------------------------------------|-----|------|-----|----------------|
| Peak Forward Voltage (Note 1)            | $V_{FM}$      | $I_{FM} = 5A$                      | —   | —    | 2.0 | V              |
| Repetitive Peak Reverse Current (Note 1) | $I_{RRM}$     | $V_{RRM} = 600V$                   | —   | —    | 50  | $\mu A$        |
| Reverse Recovery Time (Note 1)           | $t_{rr}$      | $I_F = 2A, di / dt = -20A / \mu s$ | —   | —    | 50  | ns             |
| Forward Recovery Time (Note 1)           | $t_{fr}$      | $I_F = 1A$                         | —   | —    | 150 | ns             |
| Thermal Resistance                       | $R_{th(j-c)}$ | DC Total, Junction to Case         | —   | —    | 3.6 | $^\circ C / W$ |

Note 1: A value of one cell.

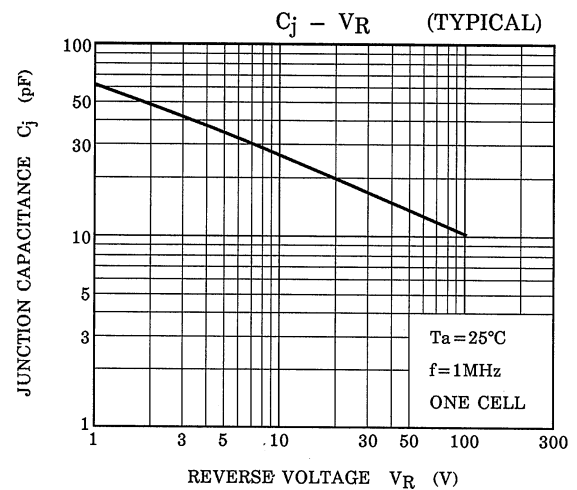
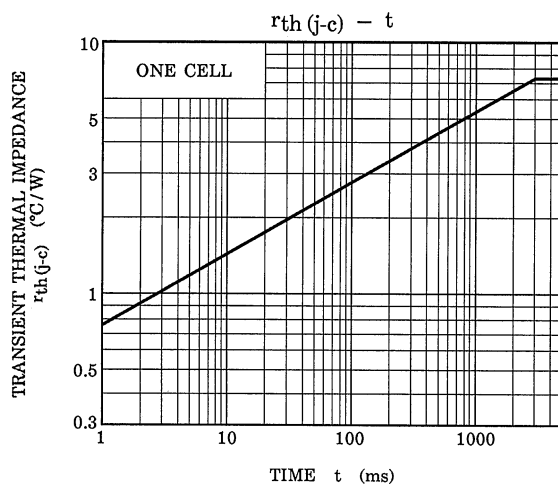
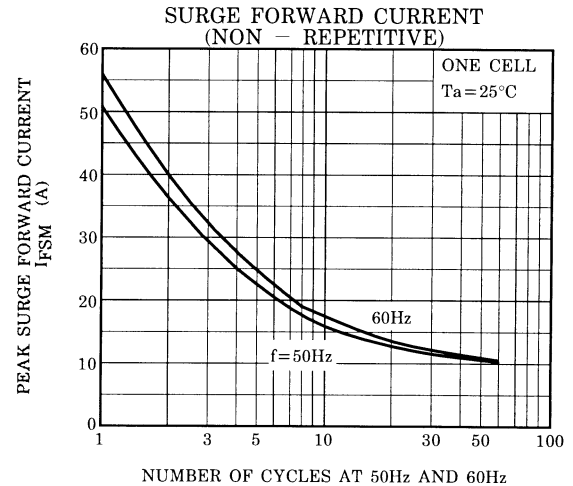
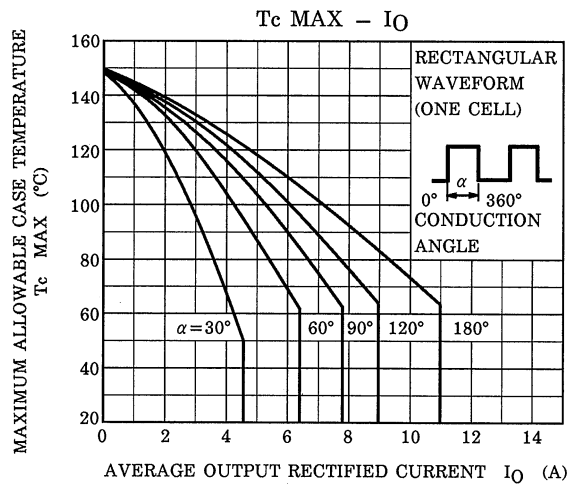
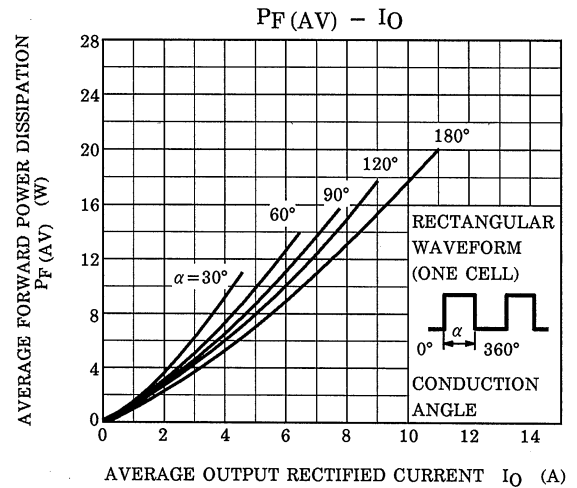
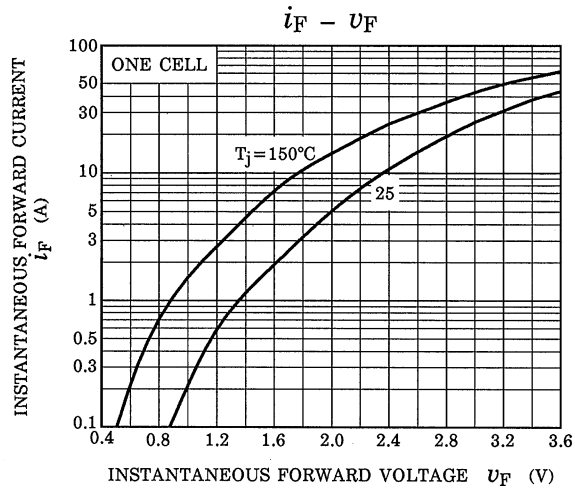
### POLARITY



### MARKING



|     |                                                                                               |         |
|-----|-----------------------------------------------------------------------------------------------|---------|
| * 1 | MARK                                                                                          | 10JL2CZ |
| * 2 | Lot Number<br>□□—Month (Starting from Alphabet A)<br>—Year (Last Number of the Christian Era) |         |



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