# TOSHIBA

## TOSHIBA RECTIFIER SILICON DIFFUSED TYPE

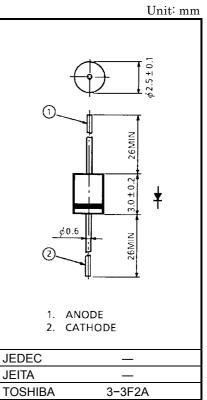
# 1JU42

### HIGH SPEED RECTIFIER APPLICATIONS (FAST RECOVERY)

- Average Forward Current  $I_{\rm F}({\rm AV}) = 1.0{\rm A}$
- Repetitive Peak Reverse Voltage
- $: V_{RRM} = 600V$
- - $: t_{rr} = 100 ns (Max)$
- Reverse Recovery Time
- Plastic Mold Type.

## MAXIMUM RATINGS (Ta = 25°C)

| CHARACTERISTIC   | SYMBOL              | RATING    | UNIT |  |
|--|---------------------|-----------|------|--|
| Repetitive Peak Reverse Voltage                          | V <sub>RRM</sub>    | 600       | V    |  |
| Average Forward Current                                  | I <sub>F (AV)</sub> | 1.0       | А    |  |
| Peak One Cycle Surge Forward<br>Current (Non-Repetitive) | I <sub>FSM</sub>    | 15 (50Hz) | A    |  |
|  |                     | 17 (60Hz) |      |  |
| Junction Temperature Range                               | Тј                  | -40~150   | °C   |  |
| Storage Temperature Range                                | T <sub>stg</sub>    | -40~150   | °C   |  |

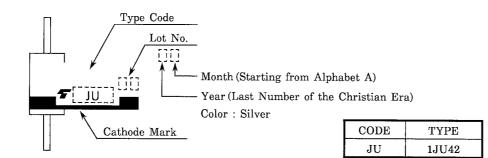


#### Weight: 0.18g

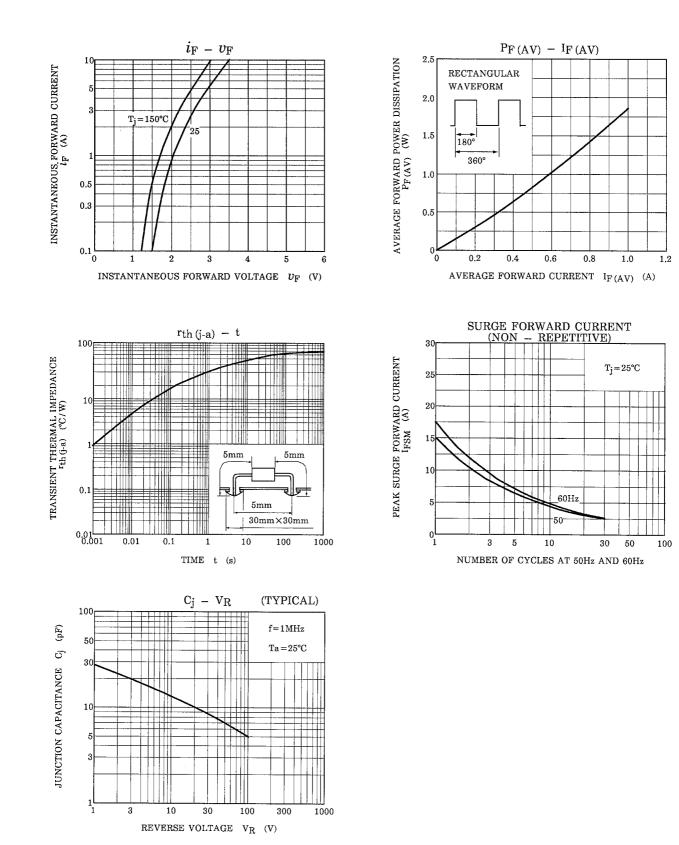
# ELECTRICAL CHARACTERISTICS (Ta = 25°C)

| CHARACTERISTIC                     | SYMBOL           | TEST CONDITION                             | MIN | MAX | UNIT |
|------------------------------------|------------------|--|-----|-----|------|
| Peak Forward Voltage               | V <sub>FM</sub>  | I <sub>FM</sub> = 1.0A                     | -   | 2.0 | V    |
| Repetitive Peak Reverse<br>Current | I <sub>RRM</sub> | V <sub>RRM</sub> = 600V                    |     | 100 | μA   |
| Reverse Recovery Time              | t <sub>rr</sub>  | I <sub>F</sub> = 1.0A, di / dt = −30A / μs | _   | 100 | ns   |
| Forward Recovery Time              | t <sub>fr</sub>  | I <sub>F</sub> = 1.0A                      | _   | 250 | ns   |

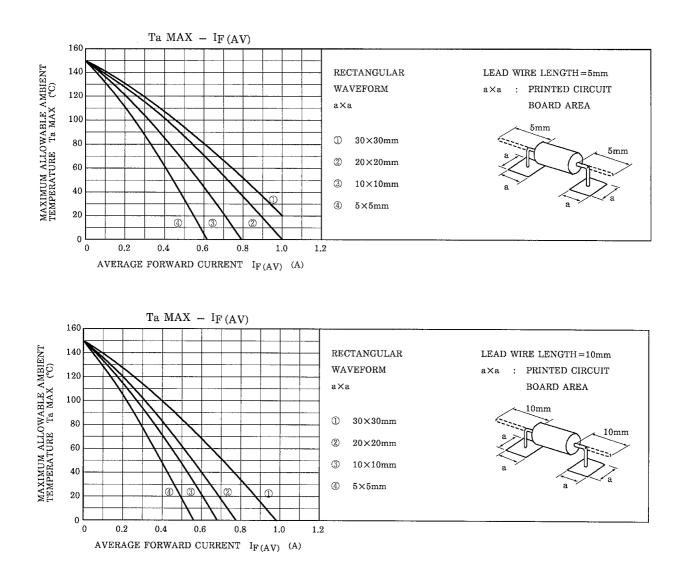
## Marking



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