

TOSHIBA Rectifier Silicon Diffused Type

# S5277B, S5277G, S5277J, S5277N

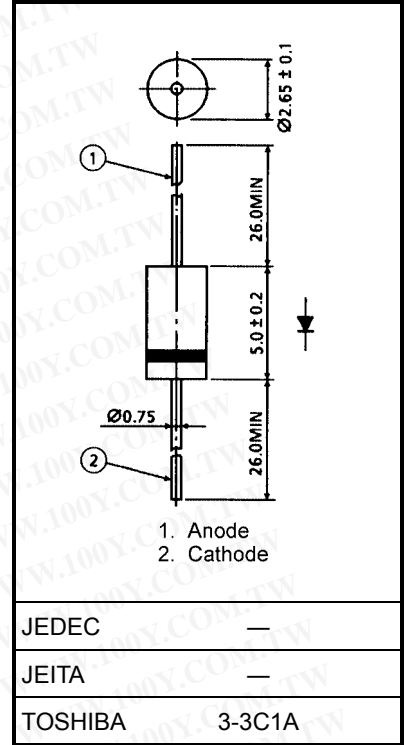
## General Purposer Rectifier Applications

- Average Forward Current:  $I_F (AV) = 1.0 \text{ A}$
- Repetitive Peak Reverse Voltage:  $V_{RRM} = 100\sim 1000 \text{ V}$

### Maximum Ratings ( $T_a = 25^\circ\text{C}$ )

| Characteristics                                       |        | Symbol     | Rating     | Unit             |
|---|--------|------------|------------|------------------|
| Repetitive peak reverse voltage                       | S5277B | $V_{RRM}$  | 100        | V                |
|   | S5277G |            | 400        |                  |
|   | S5277J |            | 600        |                  |
|   | S5277N |            | 1000       |                  |
| Average forward current                               |        | $I_F (AV)$ | 1.0        | A                |
| Peak one cycle surge forward current (non repetitive) | S5277B | $I_{FSM}$  | 50 (50 Hz) | A                |
|   | S5277G |            | 55 (60 Hz) |                  |
|   | S5277J |            | 30 (50 Hz) |                  |
|   | S5277N |            | 33 (60 Hz) |                  |
| Junction temperature                                  |        | $T_j$      | -40~150    | $^\circ\text{C}$ |
| Storage temperature range                             |        | $T_{stg}$  | -40~150    | $^\circ\text{C}$ |

Unit: mm

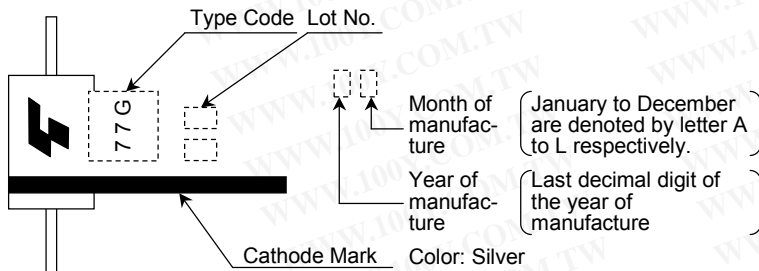


Weight: 0.3 g (typ.)

### Electrical Characteristics ( $T_a = 25^\circ\text{C}$ )

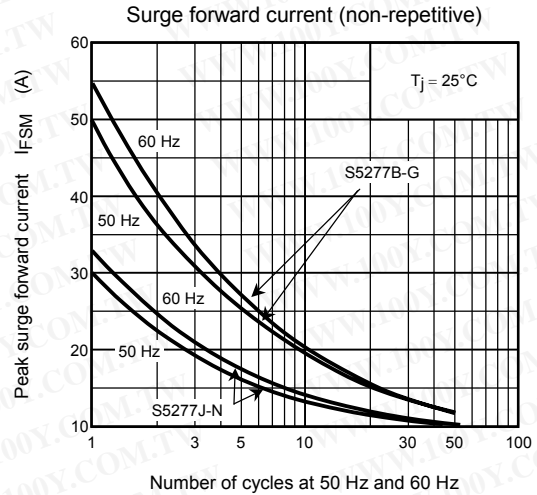
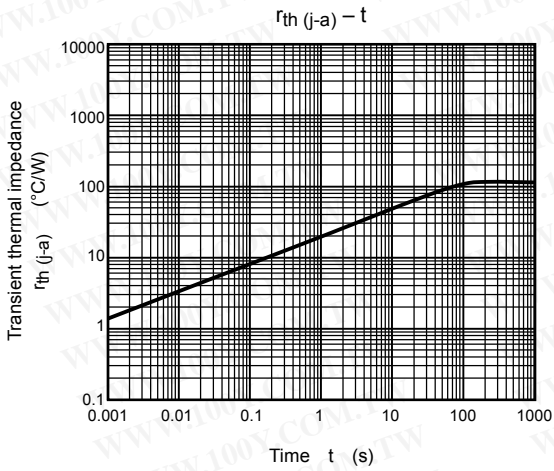
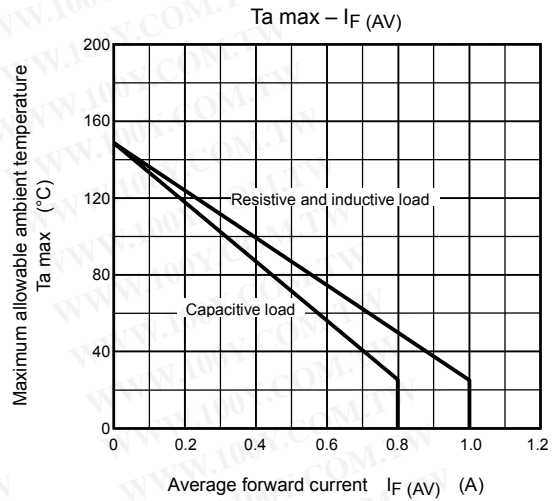
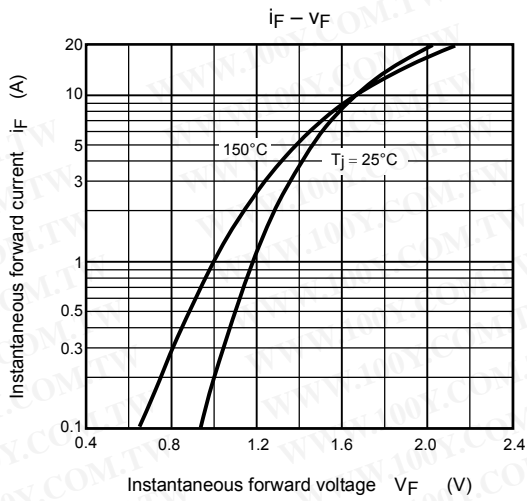
| Characteristics                          | Symbol         | Test Condition           | Min | Typ. | Max | Unit               |
|--|----------------|--------------------------|-----|------|-----|--------------------|
| Peak forward voltage                     | $V_{FM}$       | $I_{FM} = 1.0 \text{ A}$ | —   | —    | 1.2 | V                  |
| Repetitive peak reverse current          | $I_{RRM}$      | $V_{RRM} = \text{Rated}$ | —   | —    | 10  | $\mu\text{A}$      |
| Thermal resistance (junction to ambient) | $R_{th (j-a)}$ | DC                       | —   | —    | 120 | $^\circ\text{C/W}$ |

### Marking



| Code | Type   |
|------|--------|
| 77B  | S5277B |
| 77G  | S5277G |
| 77J  | S5277J |
| 77N  | S5277N |

勝特力材料 886-3-5753170  
 勝特力电子(上海) 86-21-34970699  
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