

TOSHIBA SCHOTTKY BARRIER RECTIFIER SCHOTTKY BARRIER TYPE

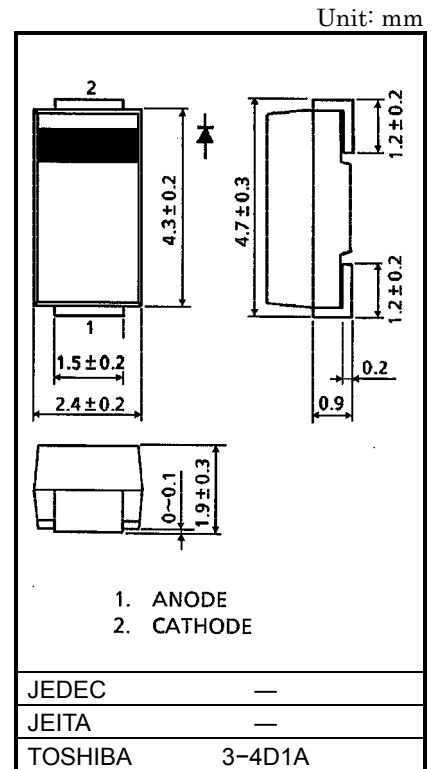
## U1GWJ44

### HIGH SPEED RECTIFIER APPLICATIONS

- Average Forward Current :  $I_F (AV) = 1.0A$
- Low Forward Voltage :  $V_{FM} = 0.55V$  (Max)
- Surface Mounting Plastic Mold Package

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

| CHARACTERISTIC                                        | SYMBOL     | RATING                   | UNIT       |
|-------------------------------------------------------|------------|--------------------------|------------|
| Repetitive Peak Reverse Voltage                       | $V_{RRM}$  | 40                       | V          |
| Average Forward Current                               | $I_F (AV)$ | 1.0                      | A          |
| Peak One Cycle Surge Forward Current (Non-Repetitive) | $I_{FSM}$  | 25 (50 Hz)<br>27 (60 Hz) | A          |
| Junction Temperature                                  | $T_j$      | -40~125                  | $^\circ C$ |
| Storage Temperature Range                             | $T_{stg}$  | -40~125                  | $^\circ C$ |

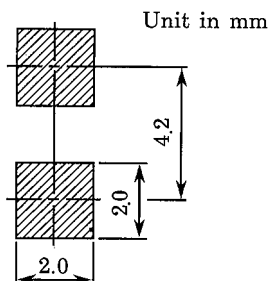


Weight: 0.06g

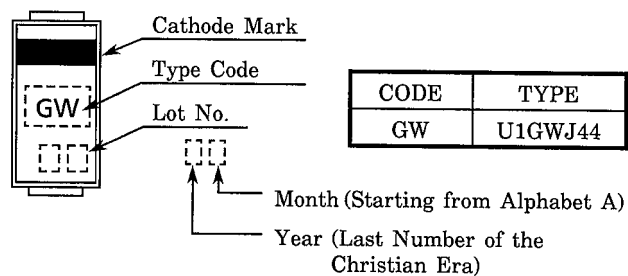
### ELECTRICAL CHARACTERISTICS ( $T_a = 25^\circ C$ )

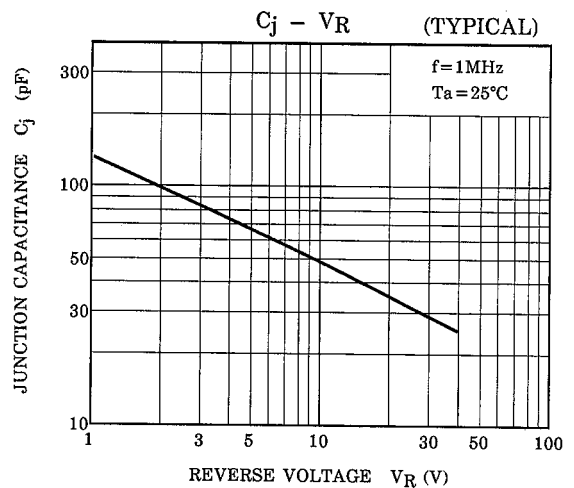
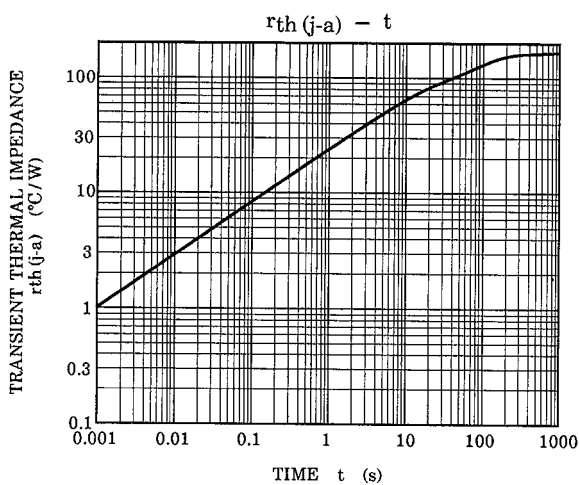
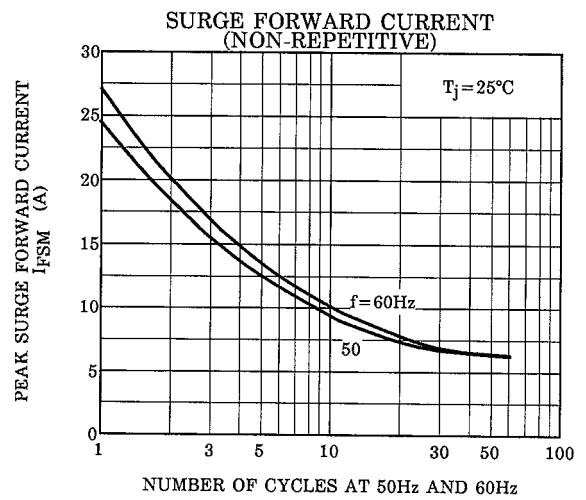
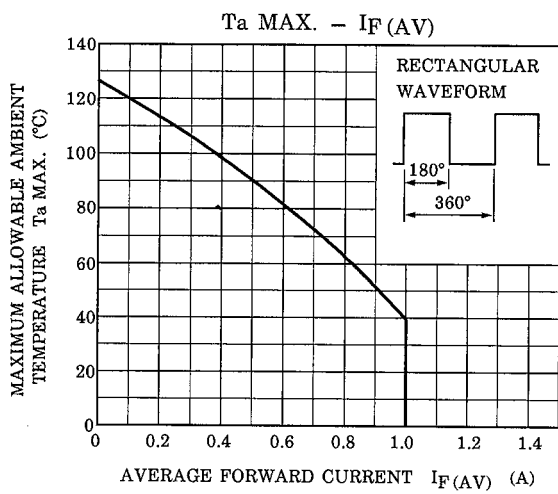
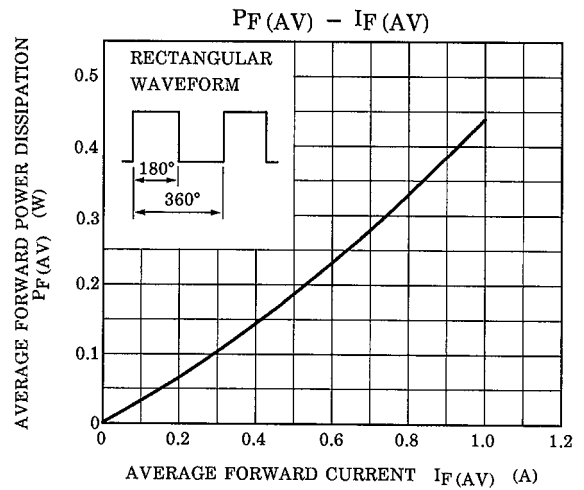
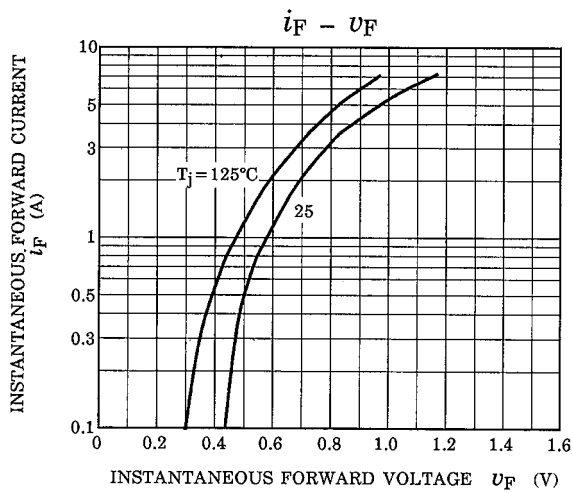
| CHARACTERISTIC                  | SYMBOL    | TEST CONDITION                         | MIN | TYP. | MAX  | UNIT |
|---------------------------------|-----------|----------------------------------------|-----|------|------|------|
| Peak Forward Voltage            | $V_{FM}$  | $I_{FM} = 1.0 A$                       | —   | —    | 0.55 | V    |
| Repetitive Peak Reverse Current | $I_{RRM}$ | $V_{RRM} = 40 V$                       | —   | —    | 0.5  | mA   |
| Reverse Recovery Time           | $t_{rr}$  | $I_F = 1.0 A, di / dt = -30 A / \mu s$ | —   | —    | 35   | ns   |
| Junction Capacitance            | $C_j$     | $V_R = 10 A, f = 1MHz$                 | —   | 47   | —    | pF   |

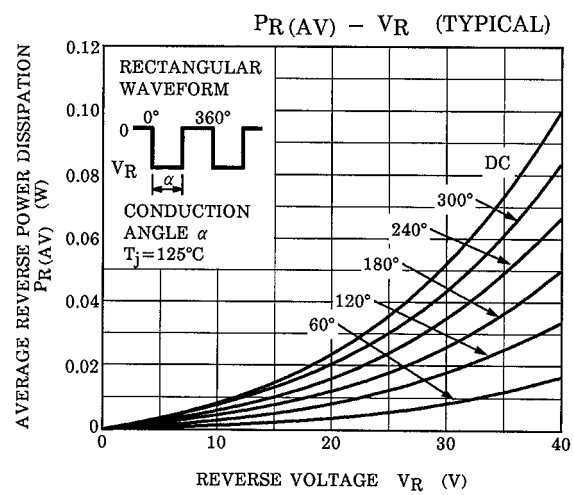
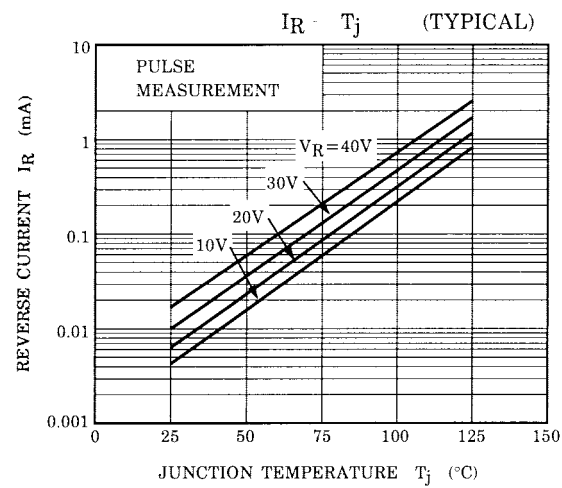
### STANDARD SOLDERING PAD



### MARK







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