

TOSHIBA RECTIFIER SILICON DIFFUSED TYPE

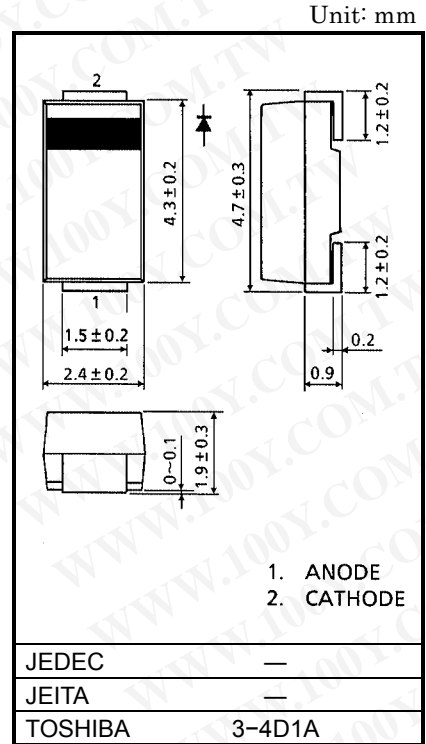
# U05GH44, U05JH44

## HIGH SPEED RECTIFIER APPLICATIONS (FAST RECOVERY)

- Repetitive Peak Reverse Voltage :  $V_{RRM} = 400, 600V$
- Average Forward Current :  $I_F (AV) = 0.5A$
- Reverse Recovery Time :  $t_{rr} = 1.5\mu s$
- Surface Mounting Plastic Mold Package

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

| CHARACTERISTIC  |         | SYMBOL     | RATING    | UNIT       |
|---|---------|------------|-----------|------------|
| Repetitive Peak Reverse Voltage                       | U05GH44 | $V_{RRM}$  | 400       | V          |
|   | U05JH44 |            | 600       |            |
| Average Forward Current                               |         | $I_F (AV)$ | 0.5       | A          |
| Peak One Cycle Surge Forward Current (Non-Repetitive) |         | $I_{FSM}$  | 20 (50Hz) | A          |
| Junction Temperature Range                            |         | $T_j$      | -40~125   | $^\circ C$ |
| Storage Temperature Range                             |         | $T_{stg}$  | -40~125   | $^\circ C$ |

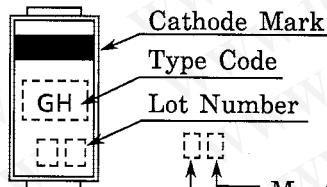
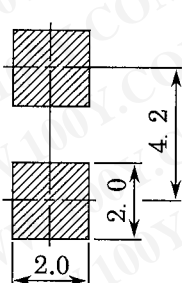


Weight: 0.06g

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

| CHARACTERISTIC                  | SYMBOL    | TEST CONDITION           | MIN | TYP. | MAX | UNIT    |
|---------------------------------|-----------|--------------------------|-----|------|-----|---------|
| Peak Forward Voltage            | $V_{FM}$  | $I_{FM} = 0.5A$          | —   | —    | 1.2 | V       |
| Repetitive Peak Reverse Current | $I_{RRM}$ | $V_{RRM} = \text{Rated}$ | —   | —    | 10  | $\mu A$ |
| Reverse Recovery Time           | $t_{rr}$  | $I_F = 20mA, I_R = 1mA$  | —   | —    | 1.5 | $\mu s$ |

### STANDARD SOLDERING PAD MARKING

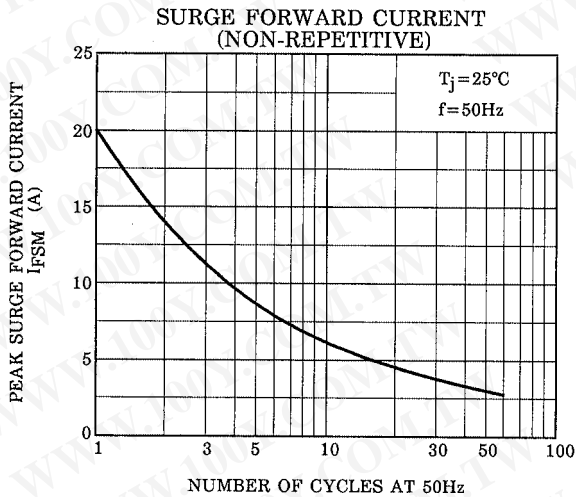
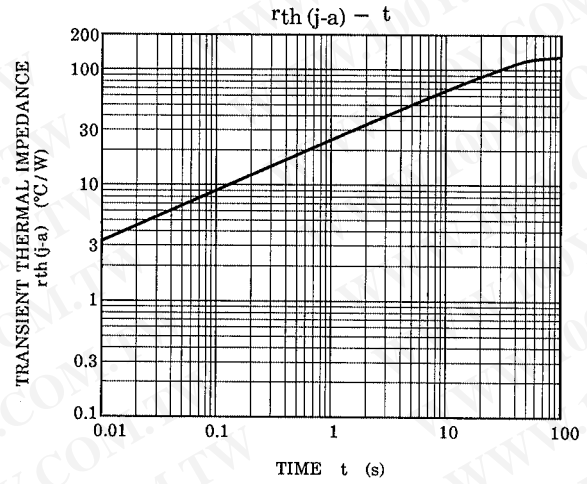
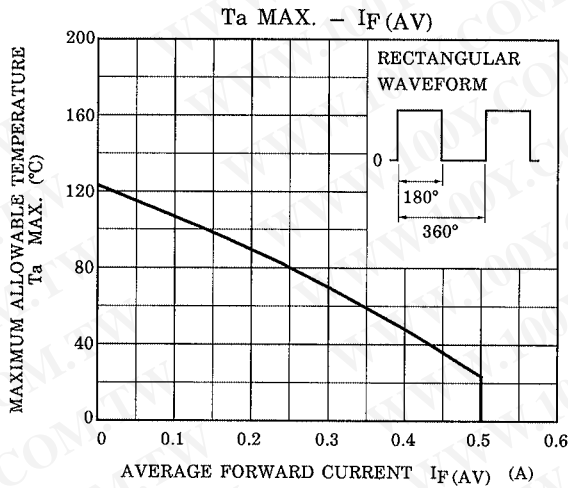
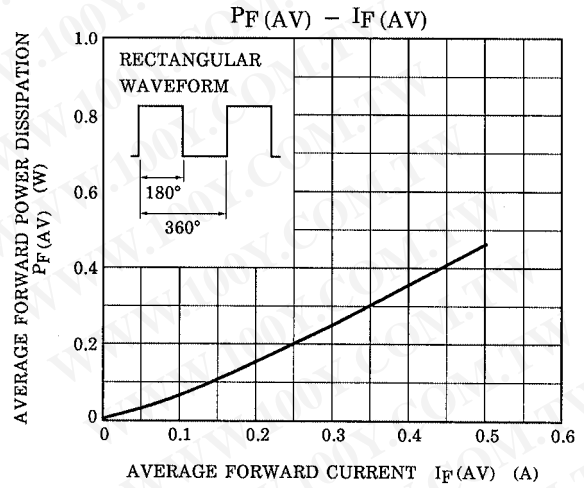
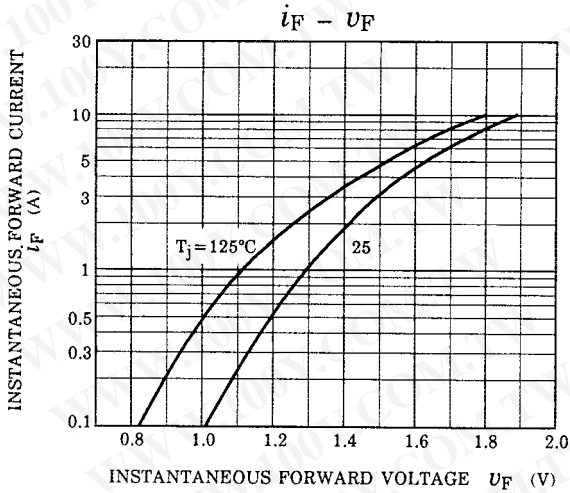


| CODE | TYPE    |
|------|---------|
| GH   | U05GH44 |
| JH   | U05JH44 |

Month (Starting from Alphabet A)

Year (Last Number of the Christian Era)

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