

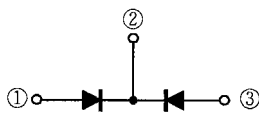
TOSHIBA SCHOTTKY BARRIER RECTIFIER SCHOTTKY BARRIER TYPE

## U1GWJ2C49

SWITCHING MODE POWER SUPPLY APPLICATION  
CONVERTER & CHOPPER APPLICATION

- Average Output Rectified Current :  $I_O = 1A$
- Repetitive Peak Reverse Voltage :  $V_{RRM} = 40V$
- Low Switching Losses and Output Noise.

### POLARITY



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

| CHARACTERISTIC                                   | SYMBOL    | RATING                   | UNIT       |
|--------------------------------------------------|-----------|--------------------------|------------|
| Repetitive Peak Reverse Voltage                  | $V_{RRM}$ | 40                       | V          |
| Average Output Rectified Current                 | $I_O$     | 1                        | A          |
| Peak One Cycle Surge Forward Current (Sine Wave) | $I_{FSM}$ | 15 (50Hz)<br>16.5 (60Hz) | A          |
| Junction Temperature                             | $T_j$     | -40~125                  | $^\circ C$ |
| Storage Temperature Range                        | $T_{stg}$ | -40~150                  | $^\circ C$ |

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

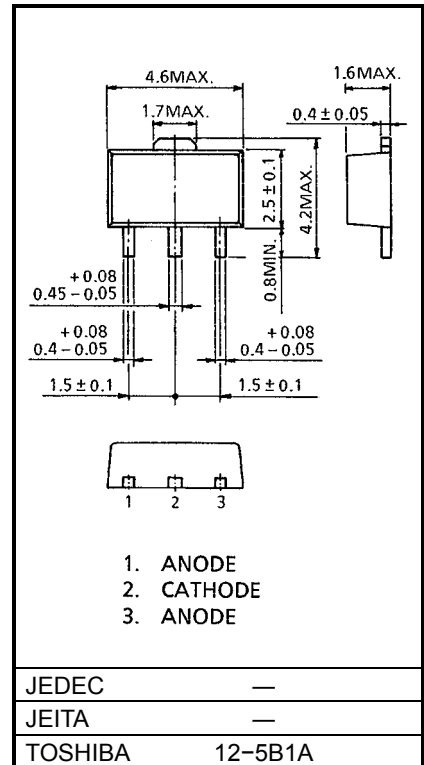
| CHARACTERISTIC                           | SYMBOL        | TEST CONDITION                | TYP. | MAX  | UNIT           |
|------------------------------------------|---------------|-------------------------------|------|------|----------------|
| Peak Forward Voltage (Note 1)            | $V_{FM}$      | $I_{FM} = 0.5A$               | —    | 0.55 | V              |
| Repetitive Peak Reverse Current (Note 1) | $I_{RRM}$     | $V_{RRM} = 40V$               | —    | 0.5  | mA             |
| Junction Capacitance (Note 1)            | $C_j$         | $V_R = 10V, f = 1MHz$         | 25   | —    | pF             |
| Thermal Resistance (Junction to Ambient) | $R_{th(j-a)}$ | DC<br>(250mm * 0.8mm Ceramic) | —    | 125  | $^\circ C / W$ |

Note 1: A value of one cell.

### MARKING

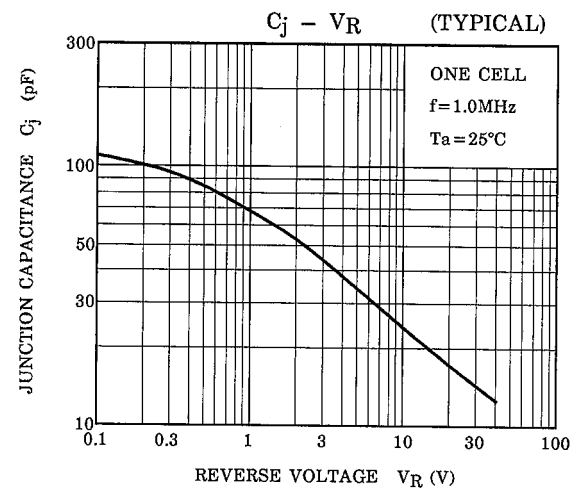
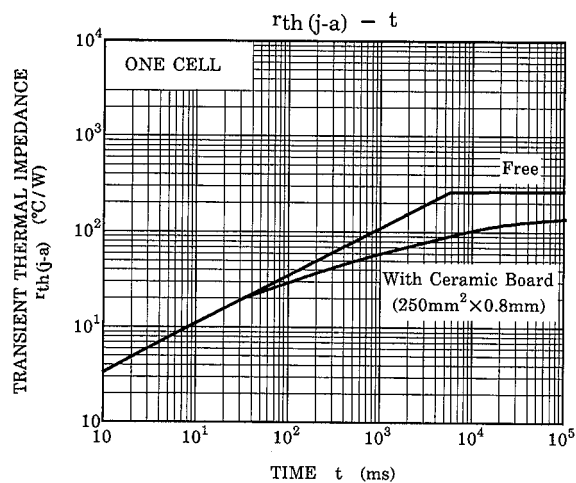
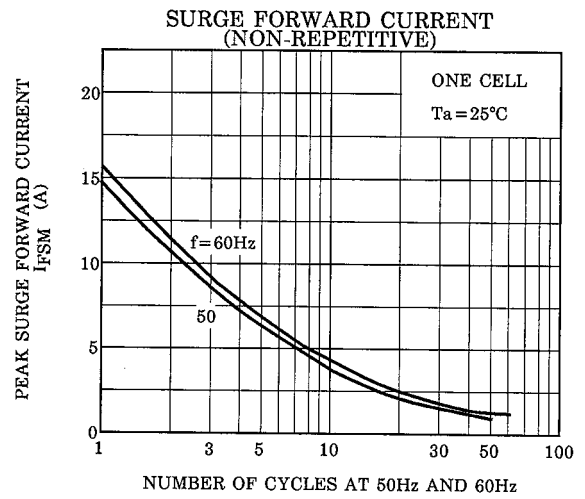
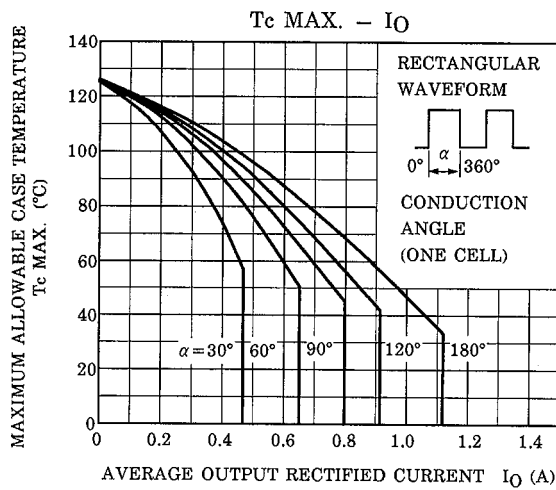
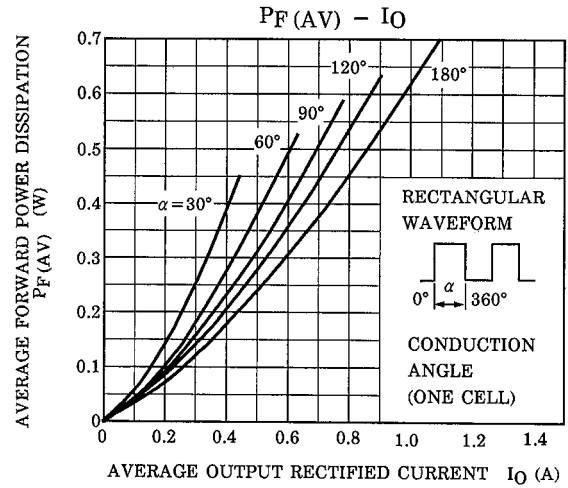
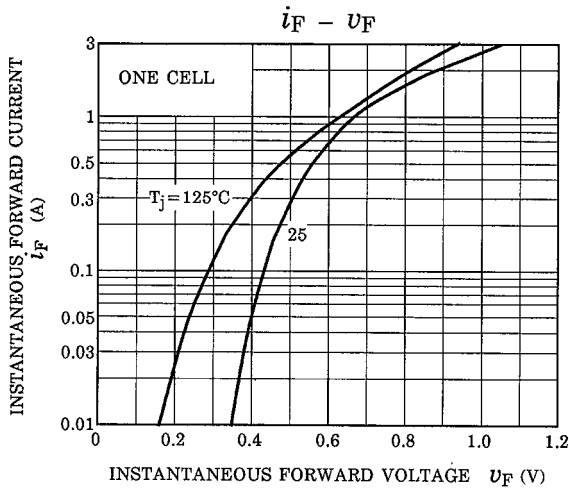


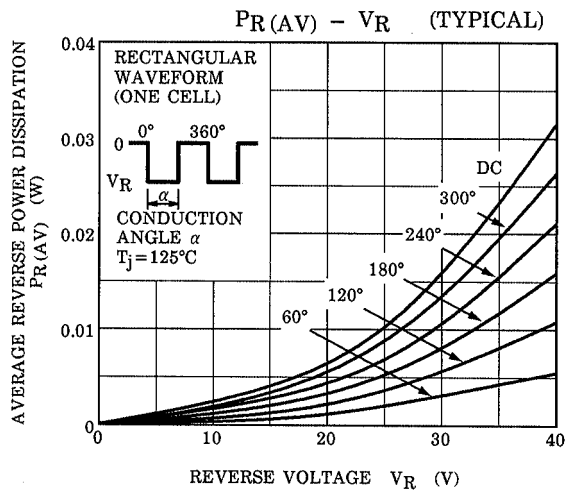
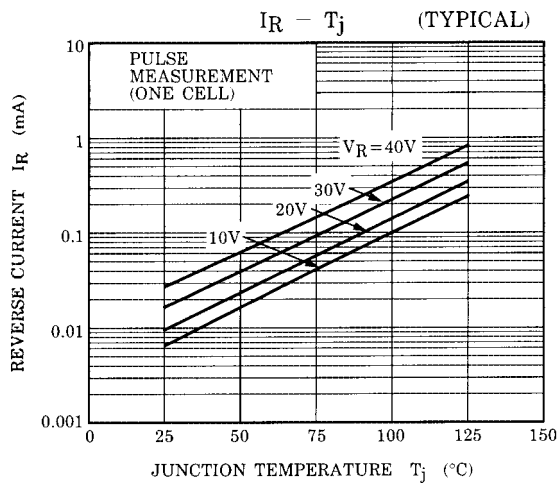
Unit: mm



|         |         |
|---------|---------|
| JEDEC   | —       |
| JEITA   | —       |
| TOSHIBA | 12-5B1A |

Weight: 0.05g





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000707EAA

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