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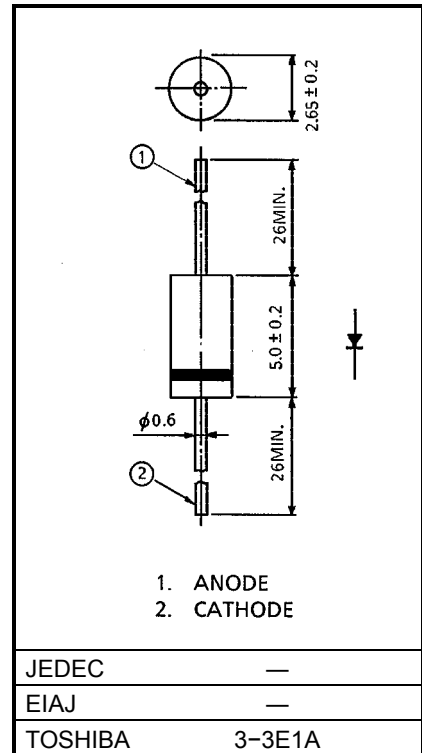
HIGH SPEED RECTIFIER APPLICATIONS

- Average Forward Current : $I_F(AV)=1.0A$ ($T_a=52^\circ C$)
- Reverse Recovery Time : $t_{rr}=35ns$ (MAX.)
- Low Forward Voltage : $V_{FM}=0.55V$ (MAX.)

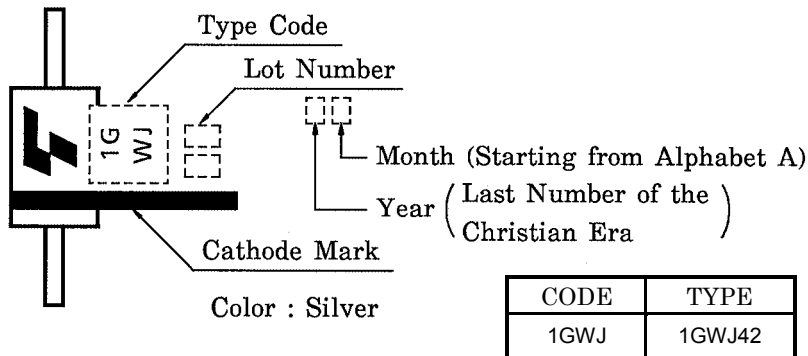
MAXIMUM RATINGS ($T_a = 25^\circ C$)

| 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} | 40 (50Hz) | A |
| Junction Temperature | T_j | -40~125 | $^\circ C$ |
| Storage Temperature Range | T_{stg} | -40~125 | $^\circ C$ |

Unit: mm



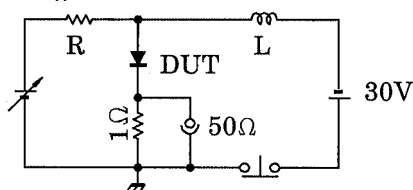
MARKING



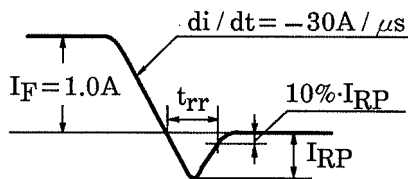
ELECTRICAL CHARACTERISTICS (Ta = 25°C)

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN | TYP. | MAX | UNIT |
|---|---------------|------------------------------|-----|------|------|------|
| Peak Forward Voltage | V_{FM} | $I_{FM}=1.0A$ | — | — | 0.55 | V |
| Repetitive Peak Reverse Current | I_{RRM} | $V_{RRM}=40V$ | — | — | 0.5 | mA |
| Reverse Recovery Time (Note 1) | t_{rr} | $I_F=1.0A, di/dt=-30A/\mu s$ | — | — | 35 | ns |
| Junction Capacitance | C_j | $V_R=10V, f=1MHz$ | — | 52 | — | pF |
| Thermal Resistance (Junction to Ambient) | $R_{th(j-a)}$ | DC (Note 2) | — | — | 125 | °C/W |
| Thermal Resistance (Junction to Lead) | $R_{th(j-l)}$ | DC (Note 2) | — | — | 60 | °C/W |

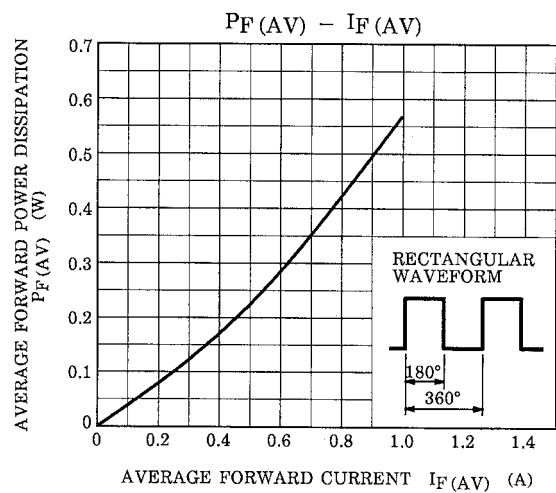
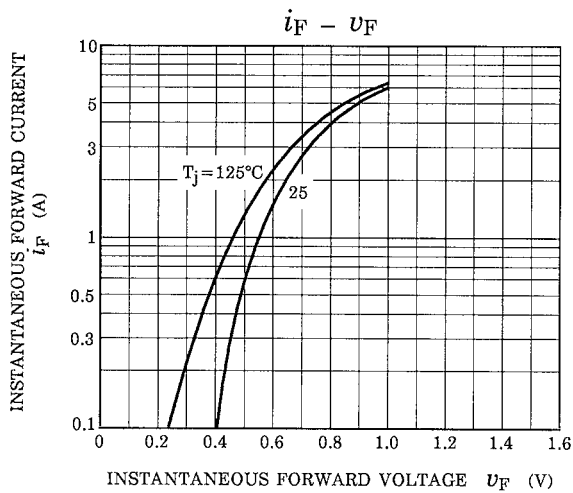
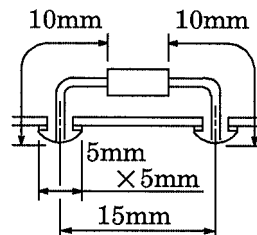
Note 1: t_{rr} TEST CIRCUIT

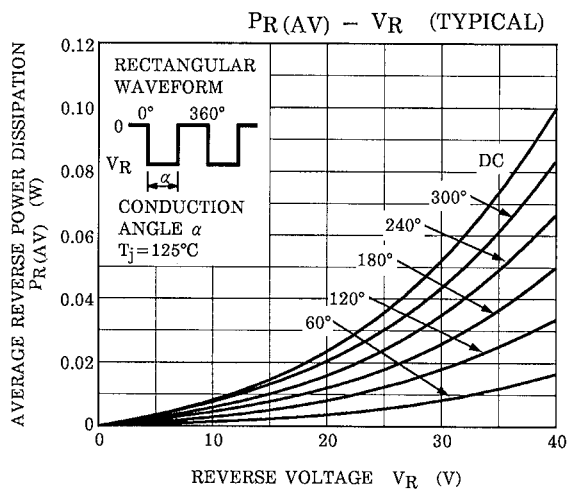
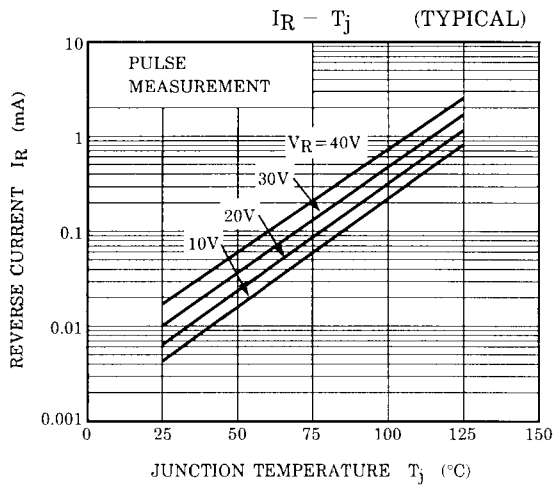
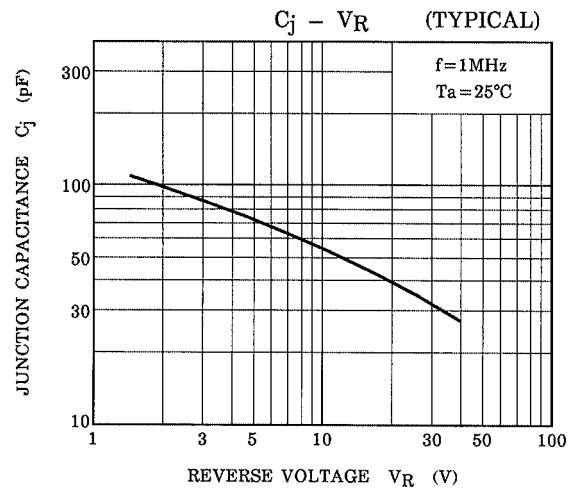
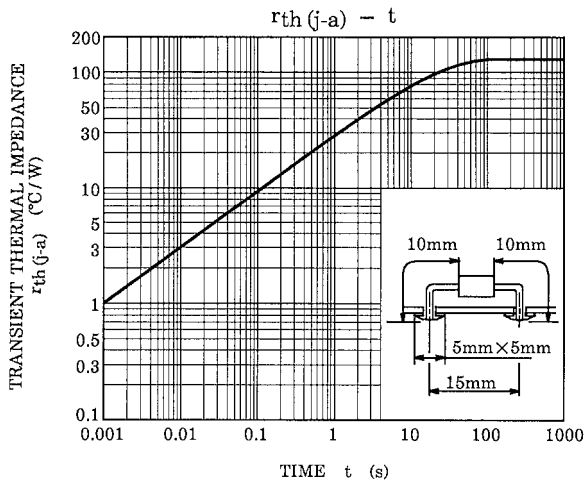
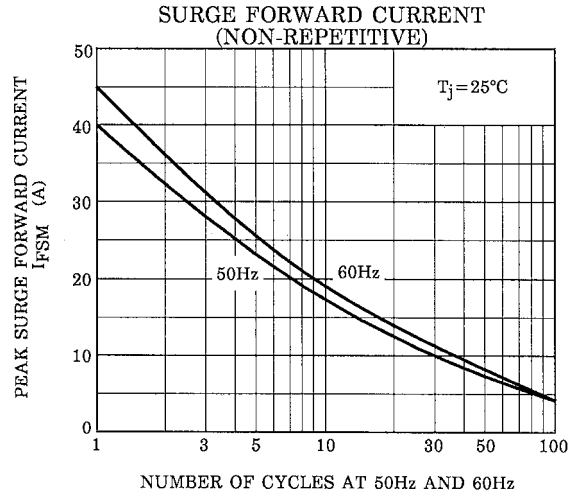
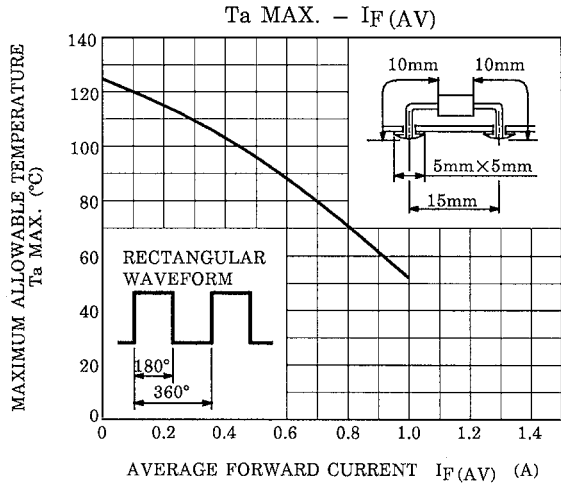


t_{rr} WAVEFORM



Note 2: THERMAL RESISTANCE





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