TOSHIBA 3GWJ42C

TOSHIBA SCHOTTKY BARRIER RECTIFIER SCHOTTKY BARRIER TYPE

3 G W J 4 2 C

HIGH SPEED RECTIFIER APPLICATIONS

Average Forward Current : $I_{F(AV)} = 3.0A$

Low Forward Voltage $: V_{FM} = 0.55V (Max.)$

MAXIMUM RATINGS (Ta = 25°C)

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|--|---------------------|-----------|----------------------|
| Repetitive Peak Reverse Voltage | v_{RRM} | 40 | V |
| Average Forward Current | I _{F (AV)} | 3.0 | Α |
| Peak One Cycle Surge Forward Current (Non-Repetitive) | I_{FSM} | 60 (50Hz) | Α |
| Junction Temperature | T_{j} | -40~125 | $^{\circ}\mathrm{C}$ |
| Storage Temperature Range | $\mathrm{T_{stg}}$ | -40~125 | $^{\circ}\mathrm{C}$ |

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Unit in mm

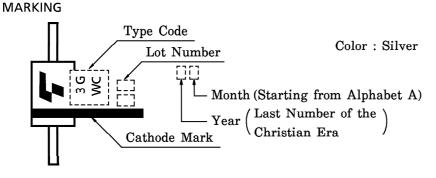
TOSHIBA 3-6E1A

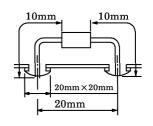
Weight: 1.18g

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|---------------------------------|---|---|------|------|------|------|
| Peak Forward Voltage | $V_{	extbf{FM}}$ | $I_{\text{FM}} = 3.0 \text{A}$ | _ | _ | 0.55 | V |
| Repetitive Peak Reverse Current | I_{RRM} | $V_{RRM} = 40V$ | _ | _ | 3.0 | mA |
| Reverse Recovery Time | $ m t_{rr}$ | $I_{\rm F} = 1.0 A$, di/dt = $-30 A/\mu s$ | _ | _ | 35 | ns |
| Junction Capacitance | C_{j} | $V_R = 10V, f = 1MHz$ | _ | 132 | _ | pF |
| Thermal Resistance (Note 1) | $R_{	ext{th (j-a)}}$ | Junction to Ambient | _ | _ | 57 | °C/W |
| Thermal Resistance (Note 1) | $\mathrm{R}_{\mathrm{th}(\mathrm{j-}\ell)}$ | Junction to Lead | _ | _ | 14 | °C/W |

Note 1: THERMAL RESISTANCE

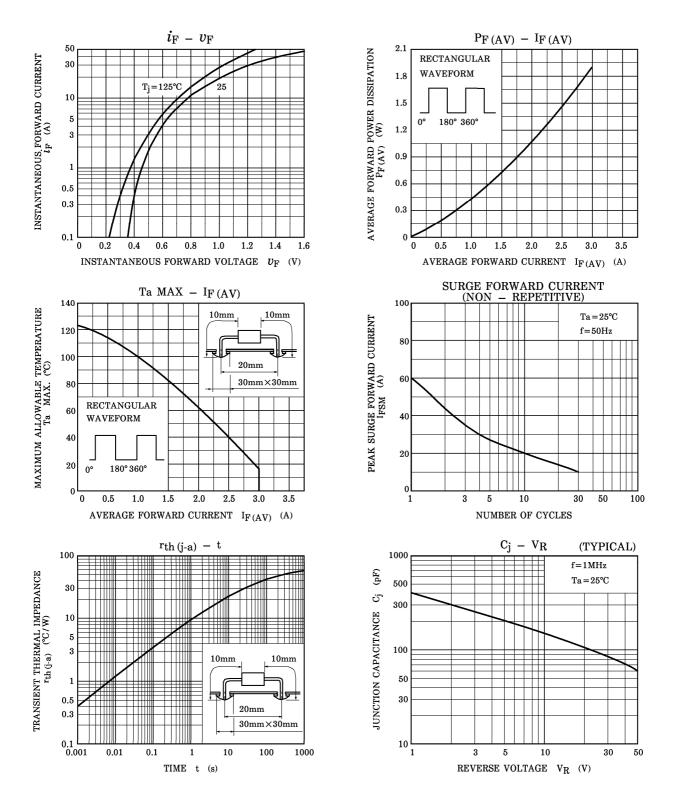




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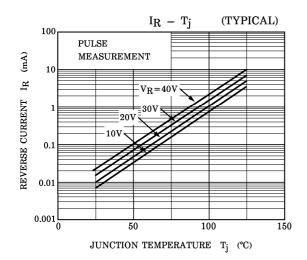
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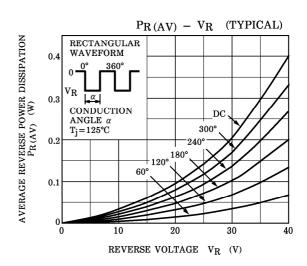


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