

- Extremely thin/leadless package
- Low capacitance
- Low forward voltage drop
- Packing code with suffix "G" means green compound (halogen-free)



0603

MECHANICAL DATA

- Case: 0603
- Terminal: Gold plated, solderable per MIL-STD-750, method 2026
- Polarity : Indicated by cathode band
- Weight : 0.003 g (approximately)
- Marking code: RZ

| MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted) | | | |
|--|------------------|---------------------|-----|
| PARAMETER | SYMBOL | VALUE | |
| Repetitive Peak Reverse Voltage | V _{RRM} | 45 | |
| DC Reverse Voltage | V _R | 40 | |
| Average Forward Current | I _O | 30 | |
| Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rate Load | I _{FSM} | 500 | |
| Power Dissipation | P _d | 150 | |
| Forward Voltage @ I _F = 1 mA | V _F | 0.37 | |
| Reverse Leakage Current | I _R | V _R =30V | 0.5 |
| | | V _R =40V | 1.0 |
| Typical Capacitance Between Terminals V _R =1V, f =1.0MHz Reverse Voltage | C _J | 1.5 | |
| Junction Temperature | T _J | -40 to +125 | |
| Storage Temperature | T _{STG} | -40 to +125 | |

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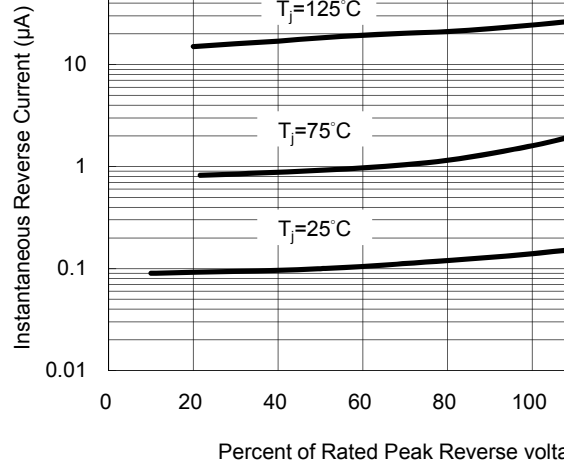
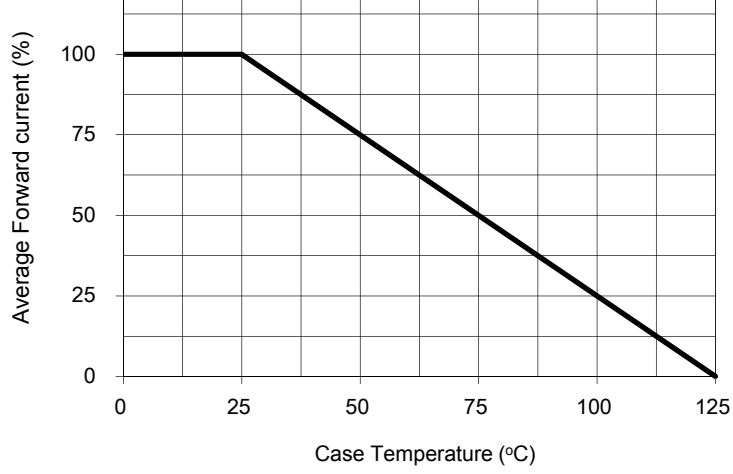


Fig. 3 Maximum Non-Repetitive Forward Surge Current

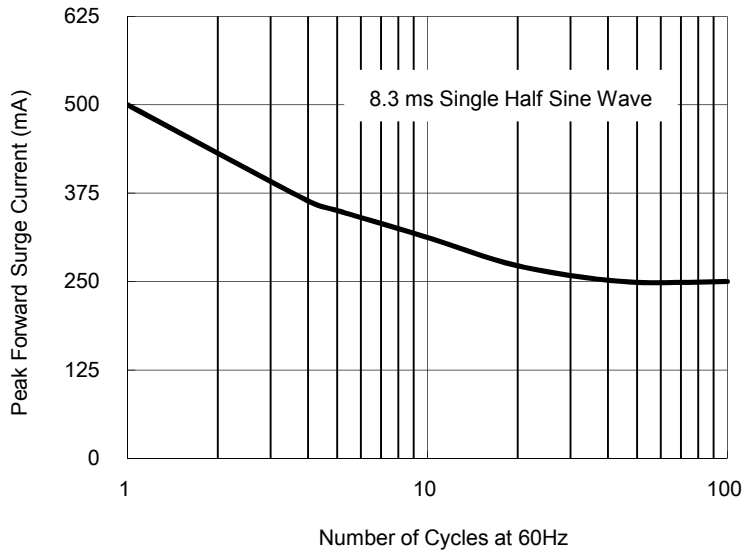


Fig. 4 Typical Junction Capacitance

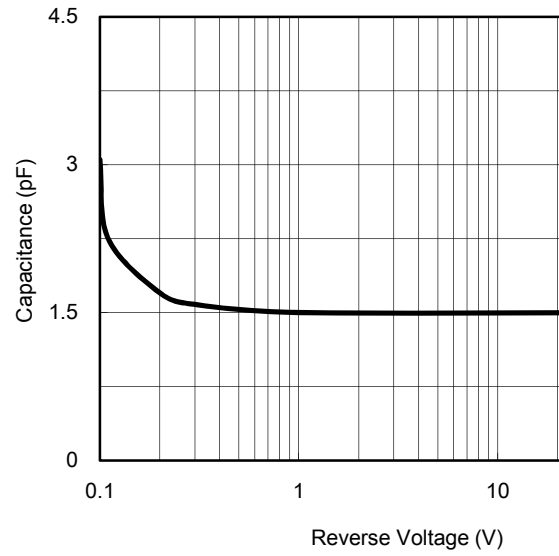
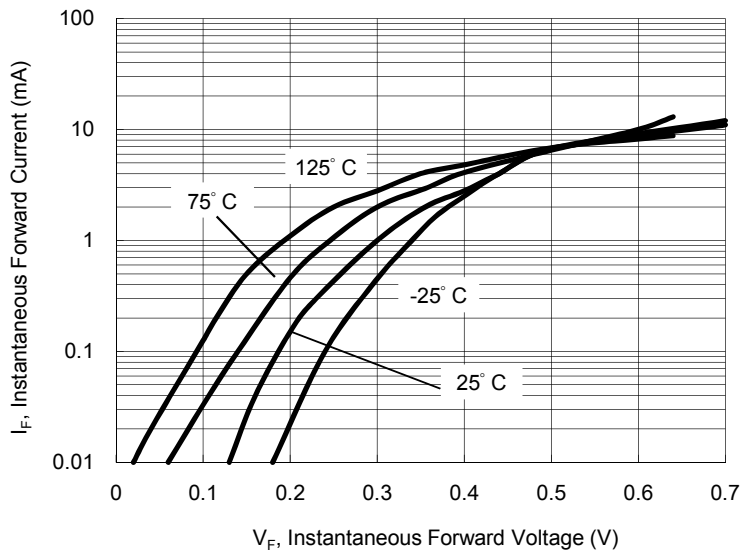


Fig. 5 Forward Characteristics Curve

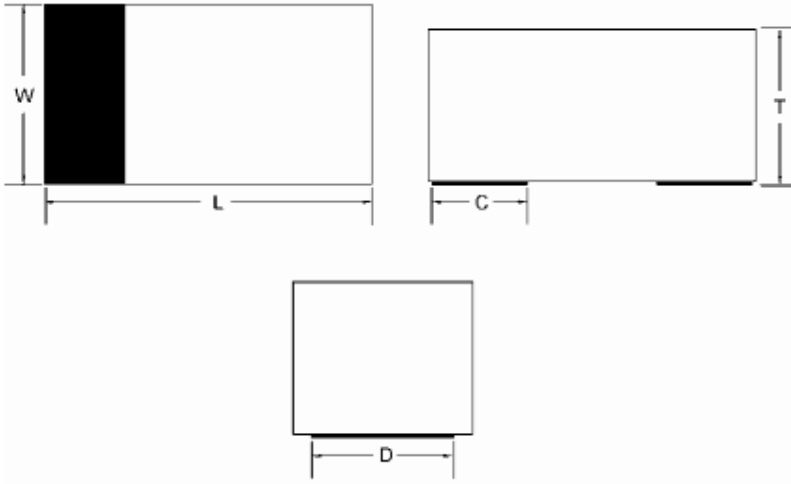


Note 1: Part No. Suffix „-xx “ would be used for special requirement

| EXAMPLE | | | | | |
|--------------------|----------|-----------------|--------------|---------------------|---------------|
| PREFERRED PART NO. | PART NO. | PART NO. SUFFIX | PACKING CODE | PACKING CODE SUFFIX | DE |
| TSS0340U RZG | TSS0340U | | RZ | G | Multip Gre |
| TSS0340U-F0 RZG | TSS0340U | -F0 | RZ | G | Defin Gre |

PACKAGE OUTLINE DIMENSION

0603



| DIM. | Unit (mm) | | | Unit | |
|------|-----------|------|------|-------|------|
| | Min | Typ. | Max | Min | Typ. |
| L | 1.60 | - | 1.80 | 0.063 | - |
| W | 0.80 | - | 1.00 | 0.031 | - |
| T | 0.70 | - | 0.85 | 0.028 | - |
| C | - | 0.45 | - | - | 0.0 |
| D | - | 0.70 | - | - | 0.0 |

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