



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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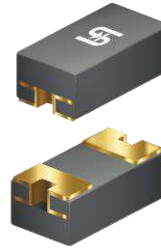


Small Signal Product

Surface Mount Schottky Barrier Diode

FEATURES

- Designed for mounting on small surface
- Extremely thin/leadless package
- Low capacitance
- Low forward voltage drop
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21



0603-B

MECHANICAL DATA

- Case: 0603-B
- Terminal: Gold plated, solderable per MIL-STD-750, method 2026
- Polarity: Indicated by cathode band
- Weight: 3 mg (approximately)
- Marking code: BA

| MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$ unless otherwise noted) | | | |
|--|-----------|-------------|------------------|
| PARAMETER | SYMBOL | VALUE | UNIT |
| Repetitive Peak Reverse Voltage | V_{RRM} | 35 | V |
| DC Reverse Voltage | V_R | 30 | V |
| Average Forward Current | I_O | 200 | mA |
| Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rate Load | I_{FSM} | 1.0 | A |
| Power Dissipation | P_d | 150 | mW |
| Forward Voltage @ $I_F=200\text{mA}$ | V_F | 0.5 | V |
| Reverse Leakage Current $V_R=10\text{V}$ | I_R | 30 | μA |
| Junction Temperature | T_J | -40 to +125 | $^\circ\text{C}$ |
| Storage Temperature | T_{STG} | -40 to +125 | $^\circ\text{C}$ |

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RATINGS AND CHARACTERISTICS CURVES

($T_A=25^\circ\text{C}$ unless otherwise noted)

Fig.1 Forward Characteristics

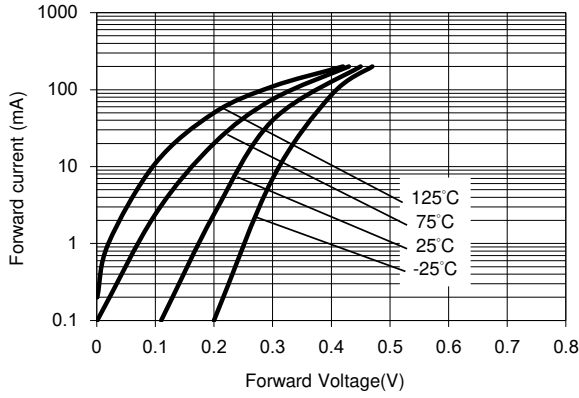


Fig. 2 Reverse Characteristics

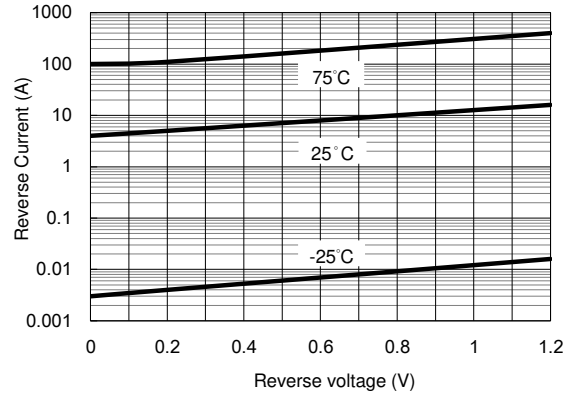


Fig. 3 Capacitance Between Terminals

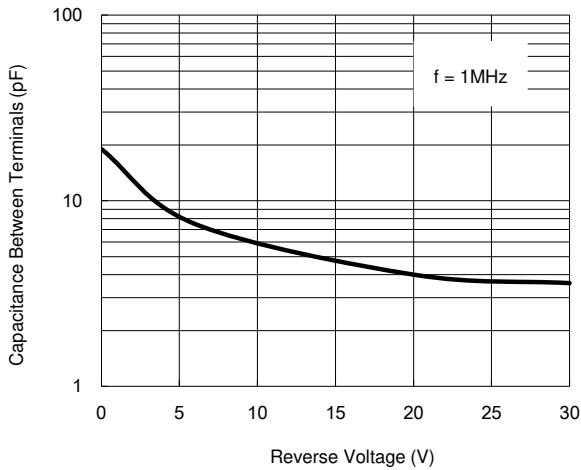


Fig. 4 Current Derating Rate

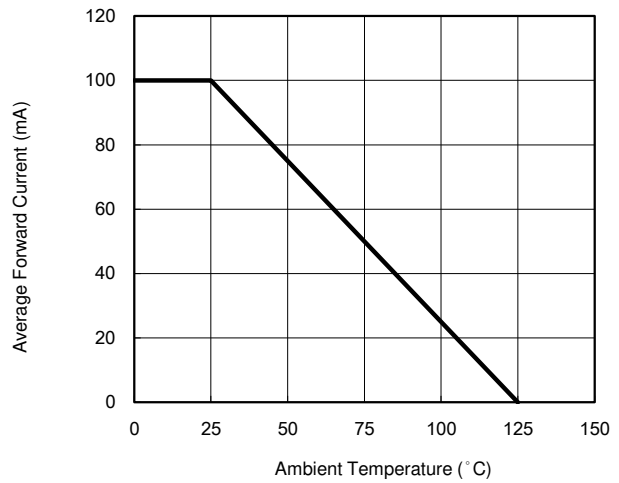


Fig 5 V_F Dispersion Map

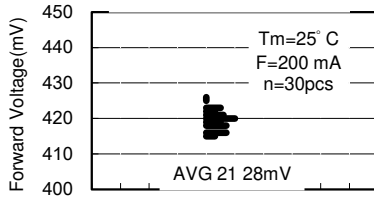


Fig 6 IR Dispersion

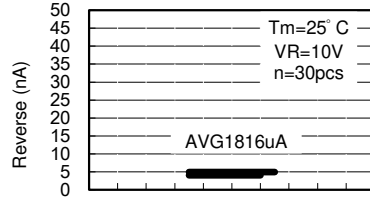
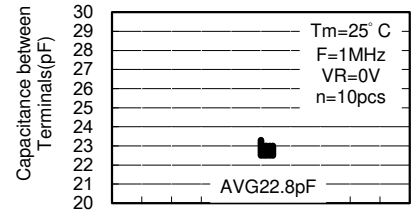


Fig 7 CT Dispersion Map



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ORDERING INFORMATION

| PART NO. | PACKING CODE | PACKING CODE SUFFIX | PACKAGE | PACKING |
|-----------|--------------|---------------------|---------|--------------|
| TSS0230LU | RG | G | 0603-B | 4K / 7" Reel |

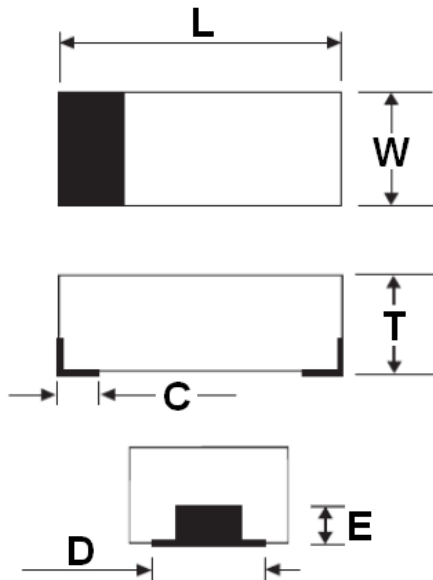
Note : Whole series with green compound

EXAMPLE

| EXAMPLE P/N | PART NO. | PACKING CODE | PACKING CODE SUFFIX | DESCRIPTION |
|---------------|-----------|--------------|---------------------|----------------|
| TSS0230LU RGG | TSS0230LU | RG | G | Green compound |

PACKAGE OUTLINE DIMENSION

0603-B



| DIM. | Unit (mm) | | | Unit (inch) | | |
|------|-----------|------|------|-------------|-------|-------|
| | Min | Typ. | Max | Min | Typ. | Max |
| L | 1.60 | - | 1.80 | 0.063 | - | 0.071 |
| W | 0.80 | - | 1.00 | 0.031 | - | 0.039 |
| T | 0.70 | - | 0.85 | 0.028 | - | 0.033 |
| C | - | 0.35 | - | - | 0.014 | - |
| D | - | 0.70 | - | - | 0.028 | - |
| E | - | 0.30 | - | - | 0.012 | - |

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