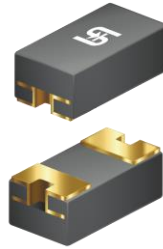


Small Signal Product

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	$^\circ\text{C}$

Small Signal Product

RATINGS AND CHARACTERISTICS CURVES

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

Fig.1 Forward Characteristics

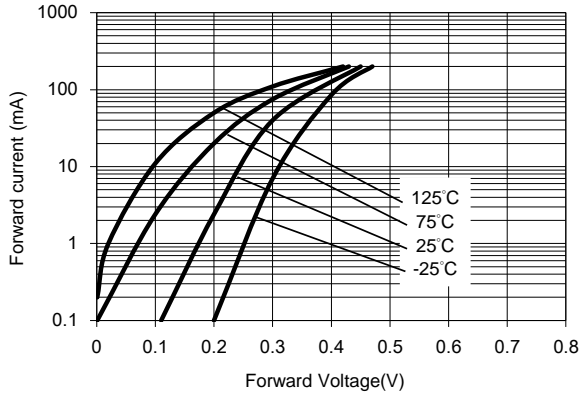


Fig. 2 Reverse Characteristics

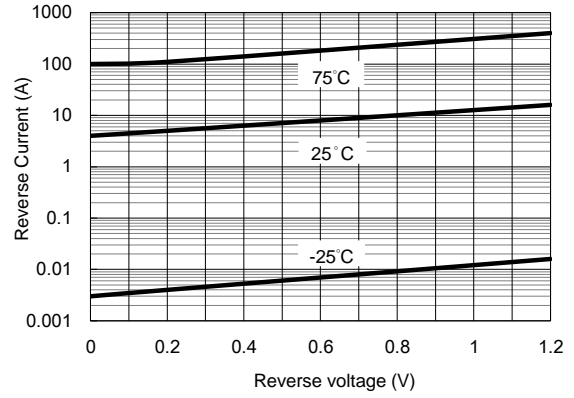


Fig. 3 Capacitance Between Terminals

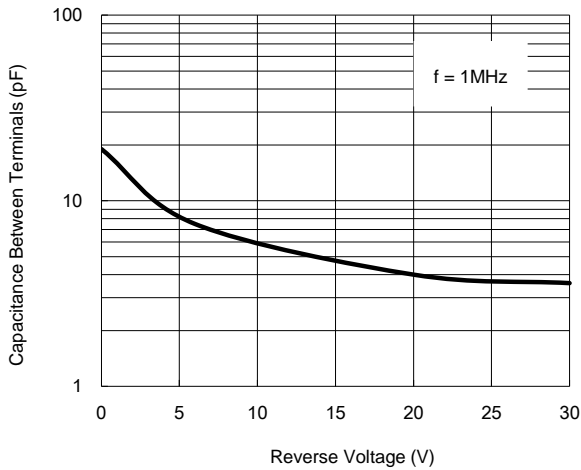


Fig. 4 Current Derating Rate

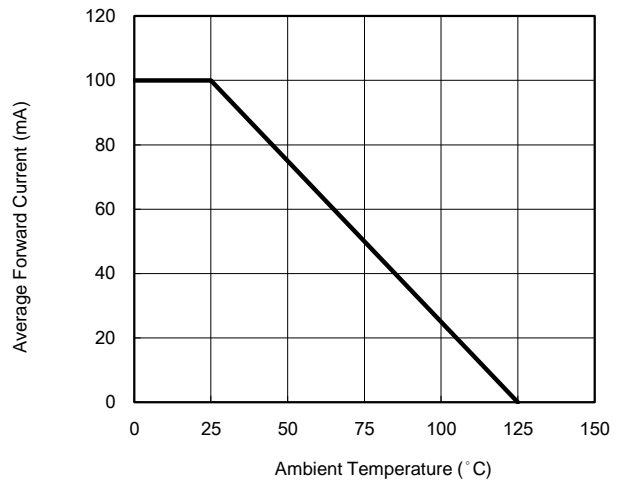


Fig 5 V_F Dispersion Map

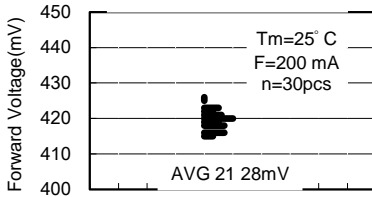


Fig 6 IR Dispersion

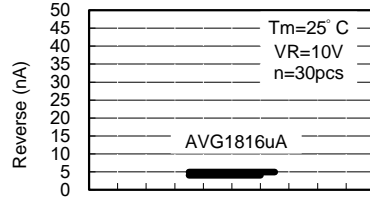
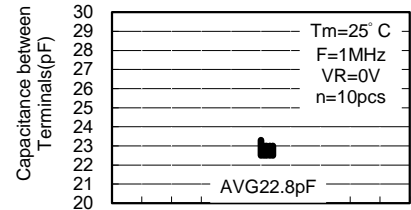


Fig 7 CT Dispersion Map



Small Signal Product

ORDERING INFORMATION

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

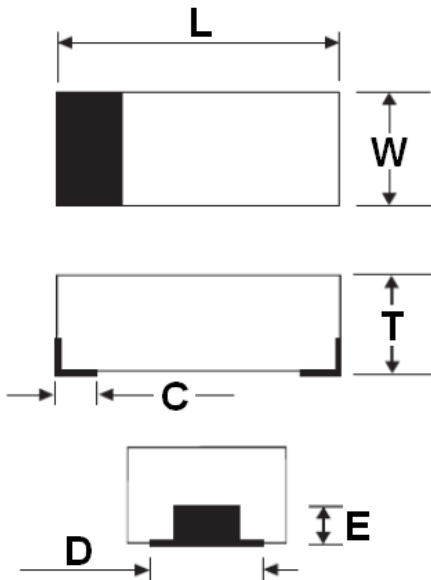
Note : Whole series with green compound

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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