

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
- Packing code with suffix "G" means green compound (halogen-free)


0603-B


MECHANICAL DATA

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

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°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 =200mA	V _F	0.5	V
Reverse Leakage Current V _R =10V	I _R	30	μA
Junction Temperature	T _J	-40 to +125	°C
Storage Temperature	T _{STG}	-40 to +125	°C

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RATINGS AND CHARACTERISTICS CURVES

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

Fig.1 Forward Characteristics

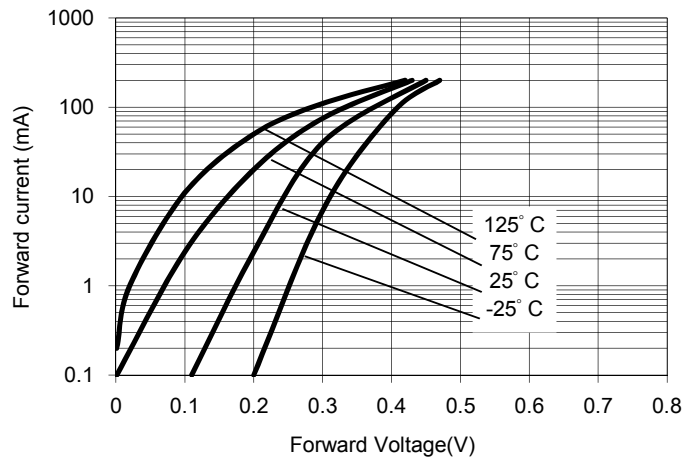


Fig. 2 Reverse Characteristics

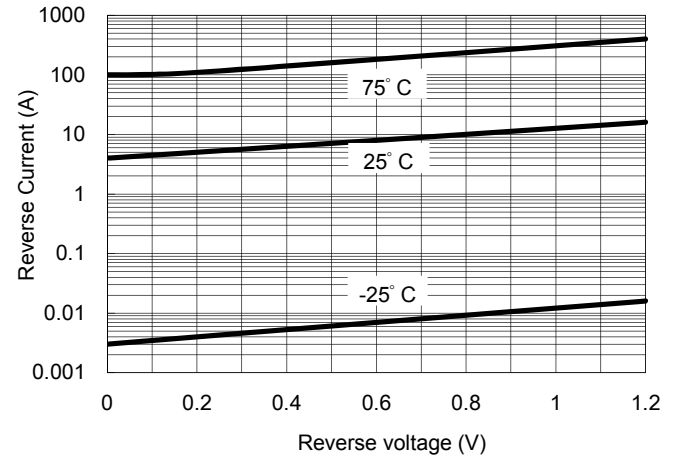


Fig. 3 Capacitance Between Terminals Characteristics

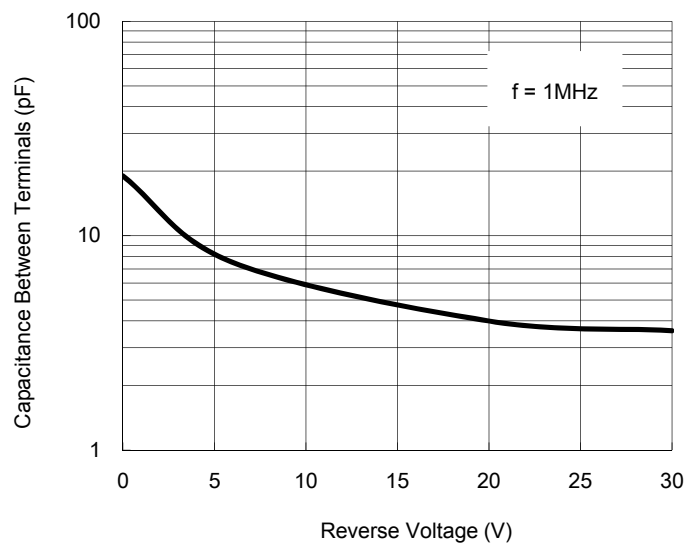
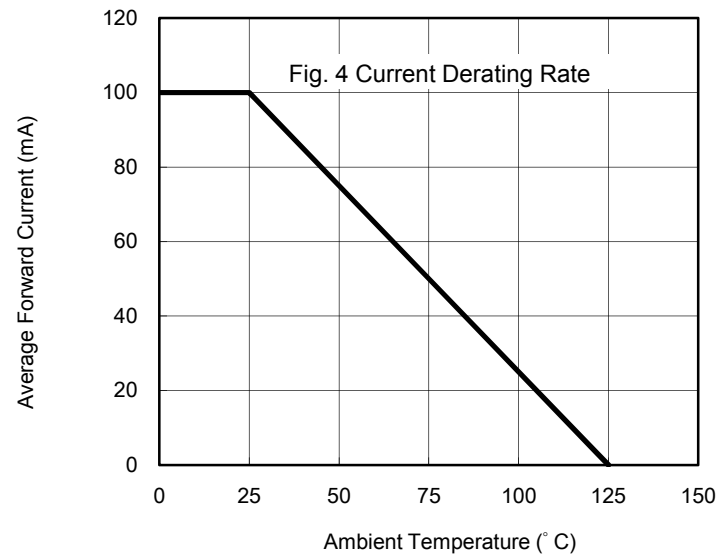


Fig. 5 V_F Dispersion Map

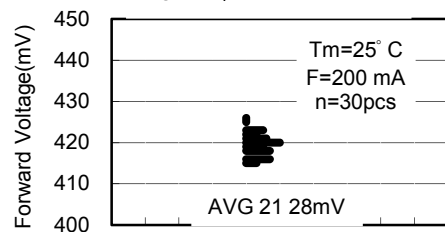


Fig. 6 IR Dispersion

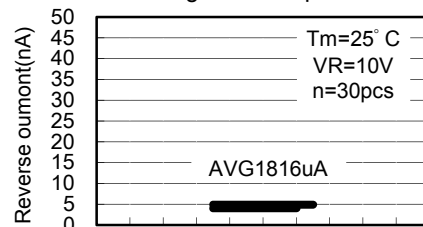
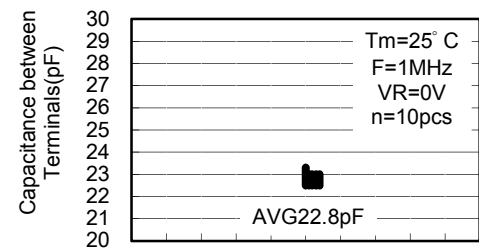


Fig. 7 CT Dispersion Map



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ORDERING INFORMATION

PART NO.	PART NO. SUFFIX (Note 1)	PACKING CODE	PACKING CODE SUFFIX	PACKAGE	PACKING
TSS0230LU	-xx	R4	G	0603-B	4K / 7" Reel

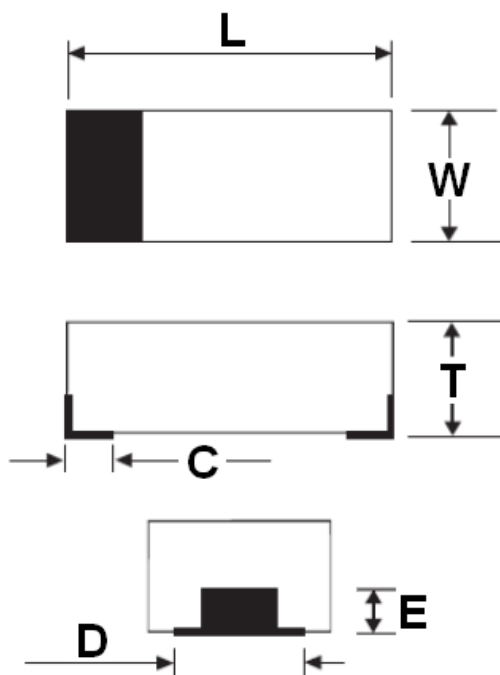
Note 1: Part No. Suffix „-xx “ would be used for special requirement

EXAMPLE

PREFERRED P/N	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION
TSS0230LU R4G	TSS0230LU		R4	G	Multiple manufacture source Green compound
TSS0230LU-F0 R4G	TSS0230LU	-F0	R4	G	Defined manufacture source 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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