

Small Signal Product

Surface Mount Schottky Barrier

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



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: BG



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)			
PARAMETER	SYMBOL	VALUE	UNIT
Repetitive Peak Reverse Voltage	V _{RRM}	70	V
DC Reverse Voltage	V _R	70	V
RMS Reverse Voltage	V _{R(RMS)}	49	V
Average Forward Current	I _O	70	mA
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rate Load	I _{FSM}	100	mA
Power Dissipation	P _d	150	mW
Forward Voltage	V _F	I _F = 1 mA 0.41	V
		I _F = 15 mA 1.0	
Reverse Leakage Current	I _R	V _R = 25 V 0.1	μA
Typical Capacitance Between Terminals V _R = 0 V , f = 1.0 MHz Reverse Voltage	C _J	2	pF
Reverse Recovery Time (I _F = I _R = 10mA, I _{RR} = 0.1×I _R , R _L =100Ω)	t _{rr}	5	ns
Junction Temperature	T _J	-65 to +125	°C
Storage Temperature	T _{STG}	-65 to +125	°C

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RATINGS AND CHARACTERISTICS CURVES

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

Fig.1 Forward Characteristics

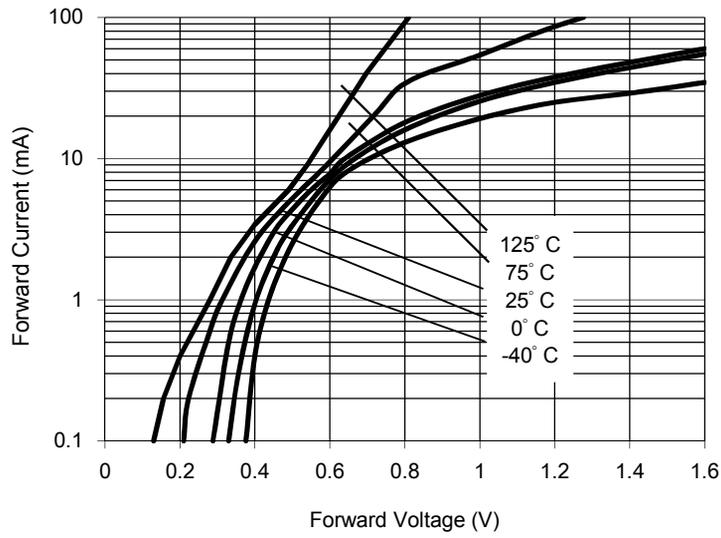


Fig. 2 Reverse Characteristics

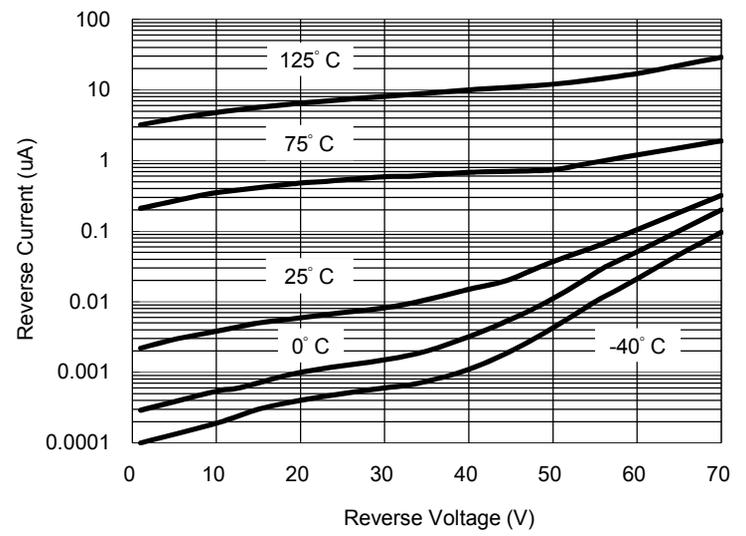


Fig. 3 Capacitance Between Terminals Characteristics

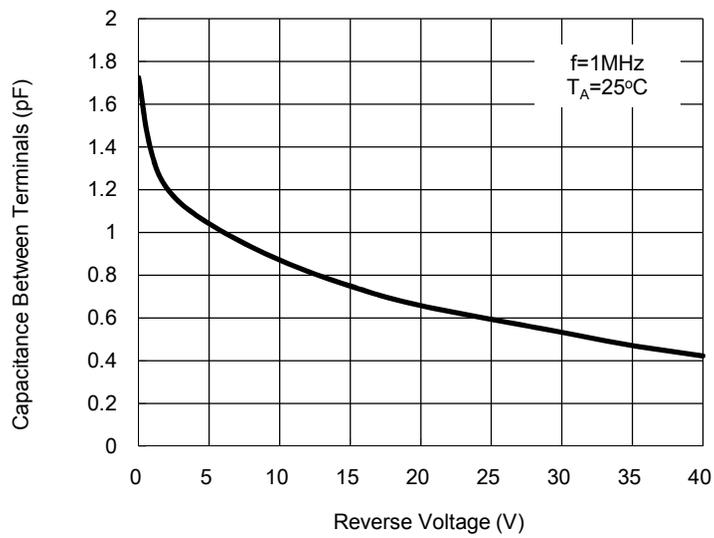
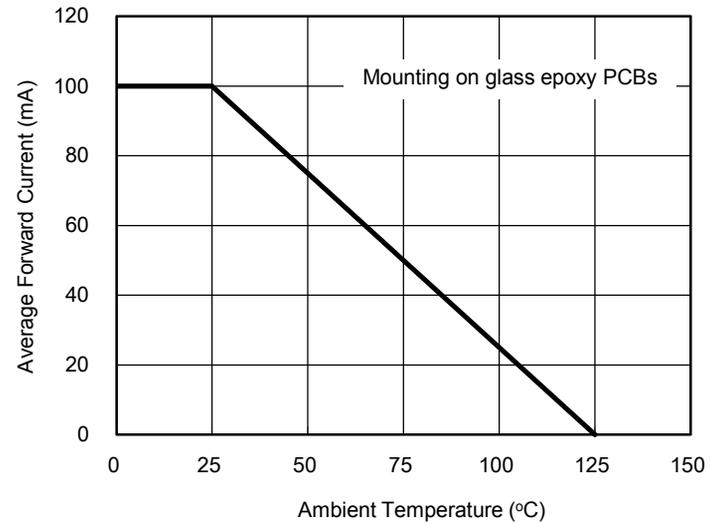


Fig. 4 Current Derating Curve



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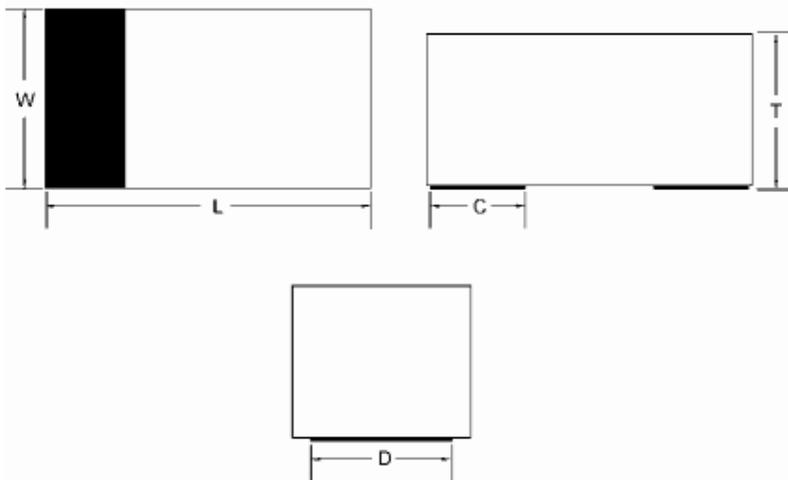
ORDERING INFORMATION					
PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	PACKAGE	PACKING
TSS70U	-xx (Note 1)	RZ	G	0603	5K / 7" Reel

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	DESCRIPTION
TSS70U RZG	TSS70U		RZ	G	Multiple manufacture source Green compound
TSS70U-F0 RZG	TSS70U	-F0	RZ	G	Defined manufacture source Green compound

PACKAGE OUTLINE DIMENSION

0603



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	-	0.45	-	-	0.018	-
D	-	0.70	-	-	0.028	-

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