Small Signal Product

Surface Mount Schottky Barrier

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

Pb-Free

RoHS COMPLIANT

MECHANICAL DATA

- Case: 0603
- Terminal: Gold plated, solderable per MIL-STD-750, method 2026
- Polarity: Indicated by cathode band
- Weight: 3 mg (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	Pd	150	mW
Forward Voltage I_F = 1 mA I_F = 15 mA	V_F	0.41 1.00	V
Reverse Leakage Current V_R = 25 V	I_R	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

RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)

Fig.1 Forward Characteristics

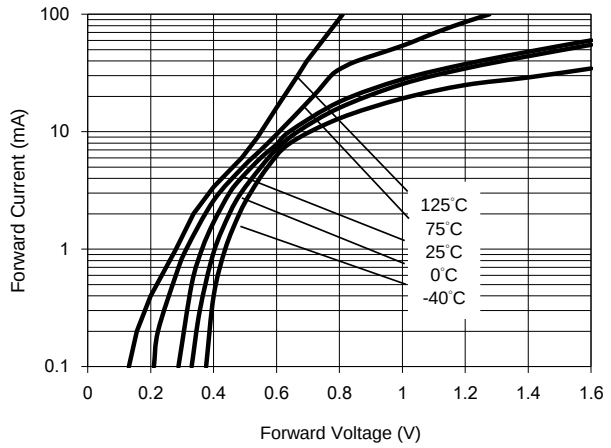


Fig. 2 Reverse Characteristics

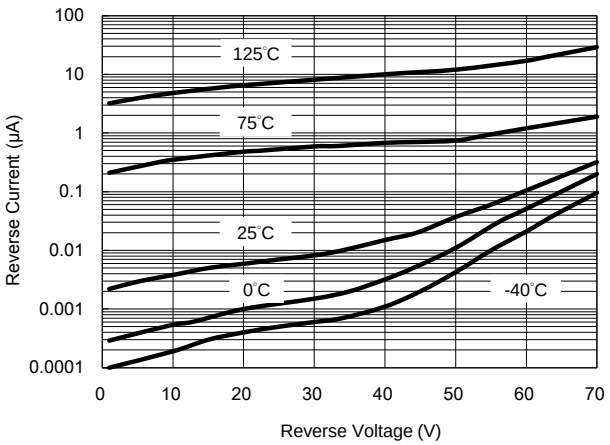
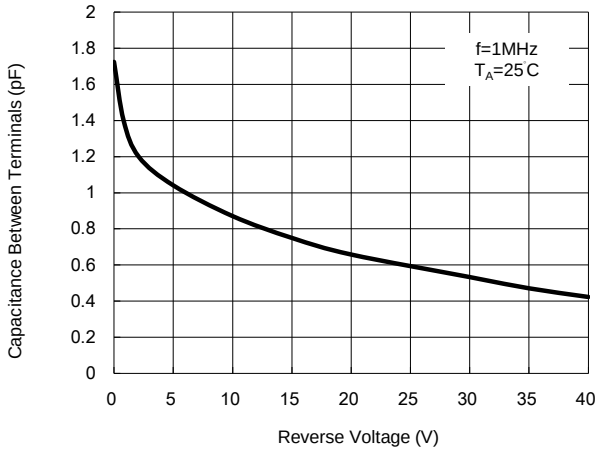
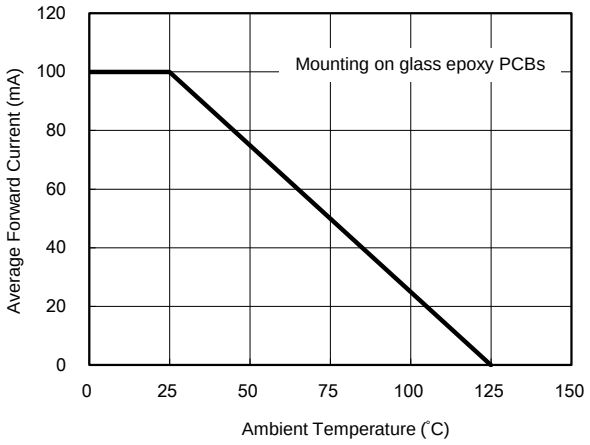


Fig. 3 Capacitance Between Terminals Characteristics





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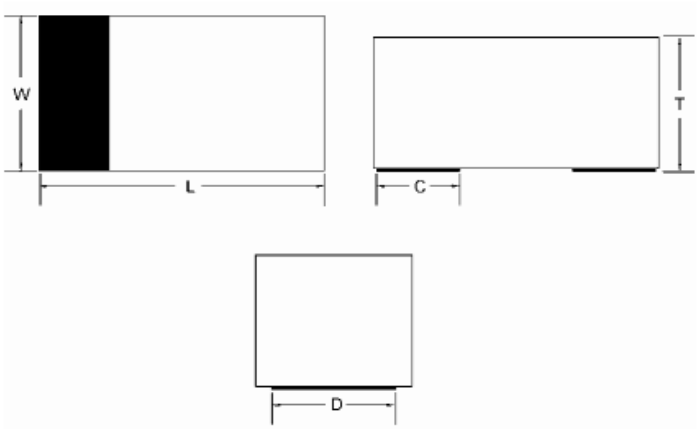
ORDERING INFORMATION				
PART NO.	**PACKING CODE**	**PACKING CODE SUFFIX**	**PACKAGE**	**PACKING**
TSS70U	RG	G	0603	4K / 7" Reel

Note: Whole series with green compound

EXAMPLE				
EXAMPLE PART NO.	**PART NO.**	**PACKING CODE**	**PACKING CODE SUFFIX**	**DESCRIPTION**
TSS70U RGG	TSS70U	RG	G	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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