

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**

### 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: B2

<b>MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS</b> ( $T_A=25^{\circ}\text{C}$ unless otherwise noted)			
<b>PARAMETER</b>	<b>SYMBOL</b>	<b>VALUE</b>	<b>UNIT</b>
Repetitive Peak Reverse Voltage	$V_{RRM}$	45	V
DC Reverse Voltage	$V_R$	40	V
Average Forward Current	$I_O$	30	mA
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rate Load	$I_{FSM}$	500	mA
Power Dissipation	$P_d$	150	mW
Forward Voltage @ $I_F=1\text{ mA}$	$V_F$	0.37	V
Reverse Leakage Current	$I_R$	$V_R=30\text{V}$	0.5
		$V_R=40\text{V}$	1.0
Typical Capacitance Between Terminals $V_R=1\text{V}$ , $f=1.0\text{MHz}$ Reverse Voltage	$C_J$	1.5	pF
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 Maximum Forward Current Derating Curve

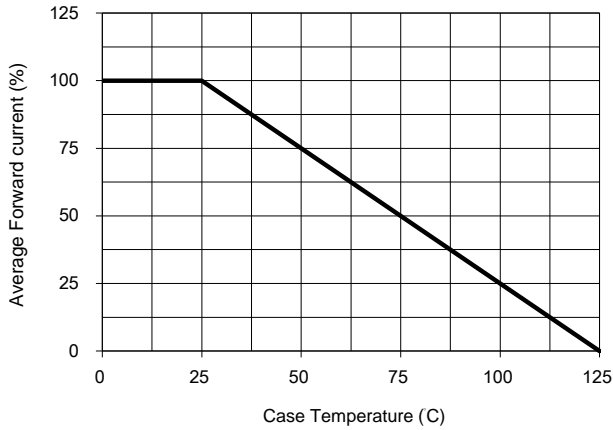


Fig. 2 Typical Reverse Characteristics

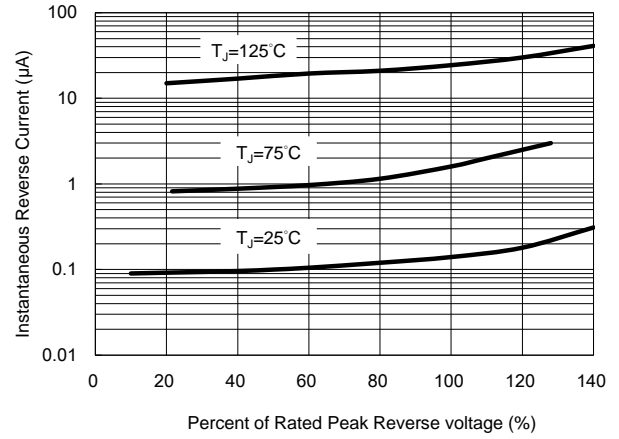


Fig. 3 Maximum Non-Repetitive Forward Surge Current

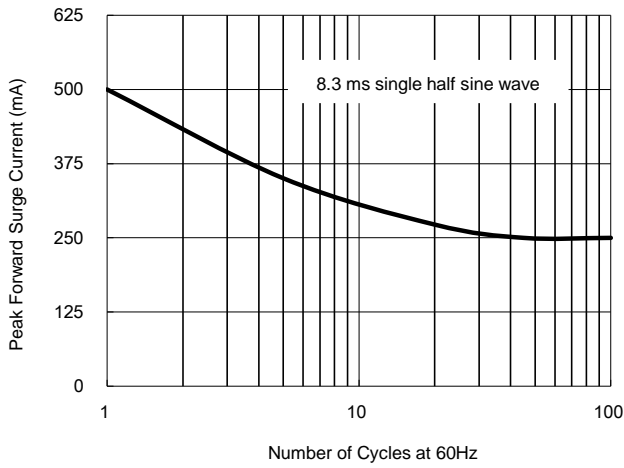


Fig. 4 Typical Junction Capacitance

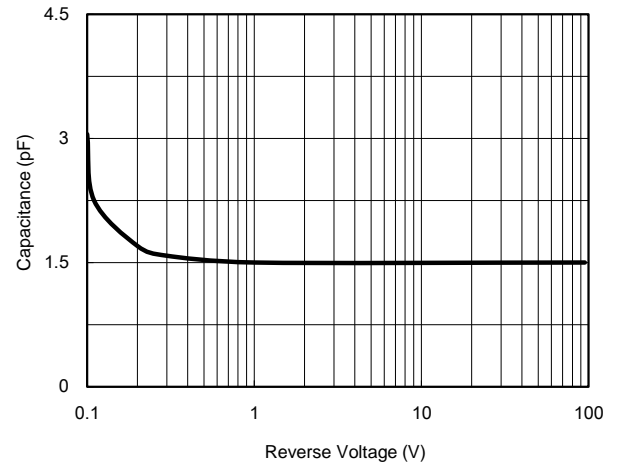
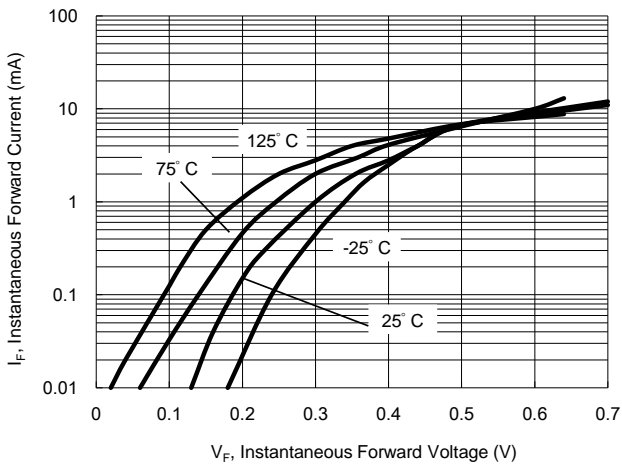


Fig. 5 Forward Characteristics Curve



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**ORDERING INFORMATION**

PART NO.	PACKING CODE	PACKING CODE SUFFIX	PACKAGE	PACKING
TSS0340U	RG	G	0603	4K / 7" Reel

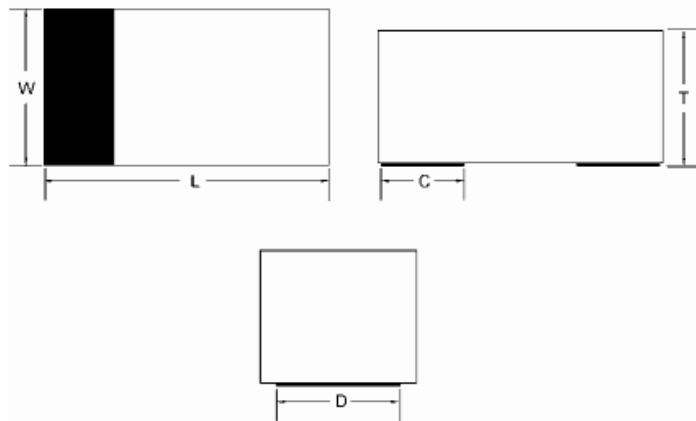
Note: Whole series with green compound

**EXAMPLE**

EXAMPLE PART NO.	PART NO.	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION
TSS0340U RGG	TSS0340U	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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