

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: BC

MAXIMUM RATINGS AND ELEC	TRICAL CHAR	RACTERISTICS (TA	=25°C unless otherwise noted)	
PARAMETER		SYMBOL	VALUE	UNIT
Repetitive Peak Reverse Voltage		V_{RRM}	40	V
DC Reverse Voltage		V _R	40	V
RMS Reverse Voltage		$V_{R(RMS)}$	28	V
Average Forward Current		I _O	200	mA
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rate Load		I _{FSM}	600	mA
Power Dissipation		Pd	150	mW
Forward Voltage	$I_F = 1.0 \text{ mA}$	V _F	0.38	V
	$I_F = 40 \text{ mA}$	VF	1.0	V
Reverse Leakage Current	V _R = 30 V	I _R	0.2	μΑ
Typical Capacitance Between Terminals $V_R = 0 \text{ V}$, $f = 1.0 \text{ MHz}$ Reverse Voltage		C _J	5	pF
Reverse Recovery Time		4	-	
$(I_{F}=I_{R}=10\text{mA}, I_{RR}=0.1\times I_{R}, R_{L}=100\Omega)$		t _{rr}	5	ns
Junction Temperature		T _J	-65 to +125	°C
Storage Temperature		T _{STG}	-65 to +125	



RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)

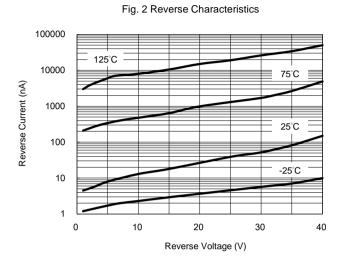


Fig. 3 Capacitance Between Terminals Characteristics

4

1

2

0

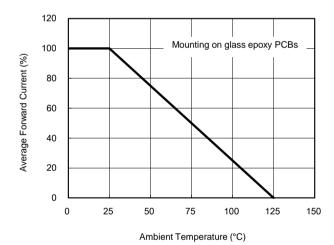
10

20

30

40

Reverse Voltage (V)







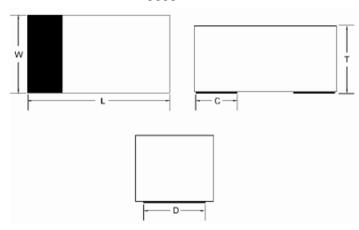
ORDERING INFORMATION						
PART NO.	PACKING CODE	PACKING CODE SUFFIX	PACKAGE	PACKING		
TSS40U	RG	G	0603	4K / 7" Reel		

Note: Whole series with green compound

EXAMPLE						
EXAMPLE PART NO.		PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION		
TSS40U RGG	TSS40U	RG	G	Green compound		

PACKAGE OUTLINE DIMENSION

0603



DIM.	Unit (mm)			Unit (inch)		
	Min	Тур.	Max	Min	Тур.	Max
L	1.60	-	1.80	0.063	-	0.071
W	0.80	1	1.00	0.031	1	0.039
Т	0.70	-	0.85	0.028	-	0.033
С	-	0.45	-	-	0.018	-
D	-	0.70	-	-	0.028	-



Notice

Specifications of the products displayed herein are subject to change without notice. TSC or anyone on its behalf, assumes no responsibility or liability for any errors or inaccuracies.

Information contained herein is intended to provide a product description only. No license, express or implied, to any intellectual property rights is granted by this document. Except as provided in TSC's terms and conditions of sale for such products, TSC assumes no liability whatsoever, and disclaims any express or implied warranty, relating to sale and/or use of TSC products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright, or other intellectual property right.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify TSC for any damages resulting from such improper use or sale.

Version: C1601