

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: 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	
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	°C



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RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)

Fig.1 Forward Characteristics

1000

(VE) 100

125°C

100

100

125°C

100

100

125°C

100

125°C

100

100

125°C

12

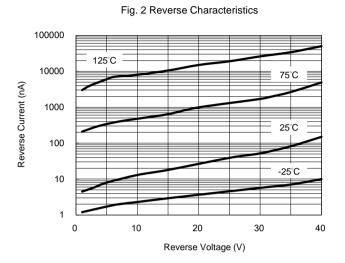


Fig. 3 Capacitance Between Terminals Characteristics

4

1

2

0

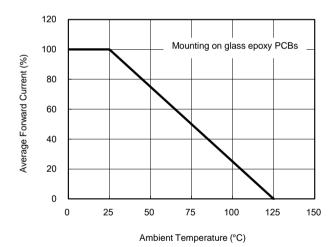
10

20

30

4

Reverse Voltage (V)







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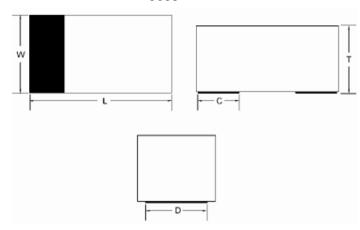
ORDERING INFORMATION						
PART NO.	PACKING CODE	PACKING CODE SUFFIX	PACKAGE	PACKING		
TSS40U	RG	G	0603	4K / 7" Reel		

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	1.80	0.063	1	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	-

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