

# **Surface Mount Schottky**

#### **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)





1005



#### MECHANICAL DATA

- Case: 1005

- Terminal: Gold plated, solderable per

MIL-STD-750, method 2026

- Polarity: Indicated by cathode band

- Weight: 6 mg (approximately)

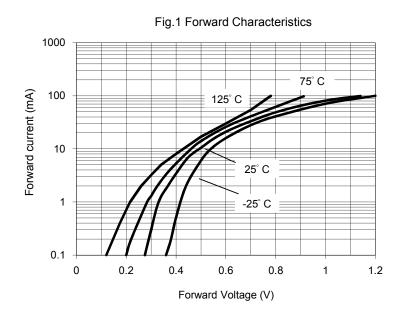
- Marking code: BC

MAXIMUM RATINGS AND ELECT	TRICAL CHA	RACTERIS	STICS (T <sub>A</sub> =25°C unless otherwise noted)	_
PARAMETER		SYMBOL	VALUE	UNIT
Repetitive Peak Reverse Voltage		$V_{RRM}$	40	V
Reverse Voltage		$V_R$	40	V
RMS Reverse Voltage		$V_{R(RMS)}$	28	V
Average Forward Current		I <sub>0</sub>	200	mA
Peak Forward Surge Current 8.3ms Single Sine-Wave Superimposed on Rate Load	Half	I <sub>FSM</sub>	600	mA
Power Dissipation		Pd	200	mW
Forward Voltage	I <sub>F</sub> = 1.0 mA	V <sub>F</sub>	0.38	V
	$I_F = 40 \text{ mA}$		1.0	
Reverse Leakage Current	V <sub>R</sub> = 30 V	I <sub>R</sub>	0.2	μA
Typical Capacitance Between Terminals $V_R = 0 \text{ V}$ , $f = 1.0 \text{ MHz}$ Reverse Voltage		CJ	5	pF
Reverse Recovery Time ( $I_F = I_R = 10$ mA, $I_{RR} = 0.1 \times I_R$ , $R_L = 100\Omega$ )		t <sub>rr</sub>	5	ns
Junction Temperature		$T_J$	-65 to +125	°C
Storage Temperature		T <sub>STG</sub>	-65 to +125	°C



### RATINGS AND CHARACTERISTICS CURVES

(T<sub>A</sub>=25°C unless otherwise noted)



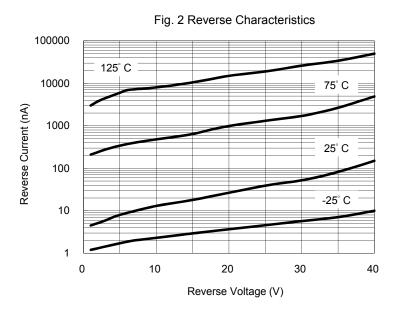


Fig. 3 Capacitance Between Terminals Characteristics

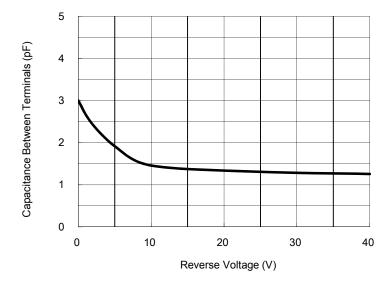


Fig. 4 Current Derating Curve 120 100 Average Forward Current (mA) 80 60 40 20 0 0 25 50 100 125 150 75 Ambient Temperature (°C)



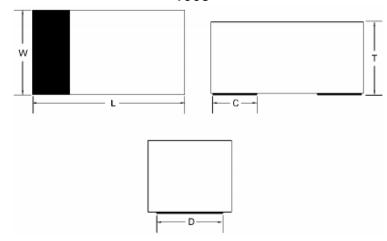
ORDERING INFORMATION							
PART NO.	PART NO. SUFFIX (Note 1)	PACKING CODE	PACKING CODE SUFFIX	PACKAGE	PACKING		
TSS40L	-xx	RW	G	1005	4K / 7" Reel		

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	
TSS40L RWG	TSS40L		RW	G	Multiple manufacture source Green compound	
TSS40L-F0 RWG	TSS40L	-F0	RW	G	Define manufacture source Green compound	

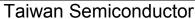
## PACKAGE OUTLINE DIMENSION

### 1005



DIM.	Unit (mm)			Unit (inch)		
	Min	Тур	Max	Min	Тур	Max
L	2.4	-	2.6	0.094	1	0.102
W	1.1	-	1.3	0.043	-	0.051
Т	0.7	-	0.9	0.028	1	0.035
С	-	0.5	-	-	0.020	-
D	-	1.0	-	-	0.039	-







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