

Small Signal Product

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 ELECTRICAL CHARACTERISTICS (T _A =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 _O	200	mA
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rate Load	I _{FSM}	600	mA
Power Dissipation	P _d	200	mW
Forward Voltage I _F = 1.0 mA I _F = 40 mA	V _F	0.38	V
		1.0	
Reverse Leakage Current V _R = 30 V	I _R	0.2	μA
Typical Capacitance Between Terminals V _R = 0 V , f = 1.0 MHz Reverse Voltage	C _J	5	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

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RATINGS AND CHARACTERISTICS CURVES

($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Fig.1 Forward Characteristics

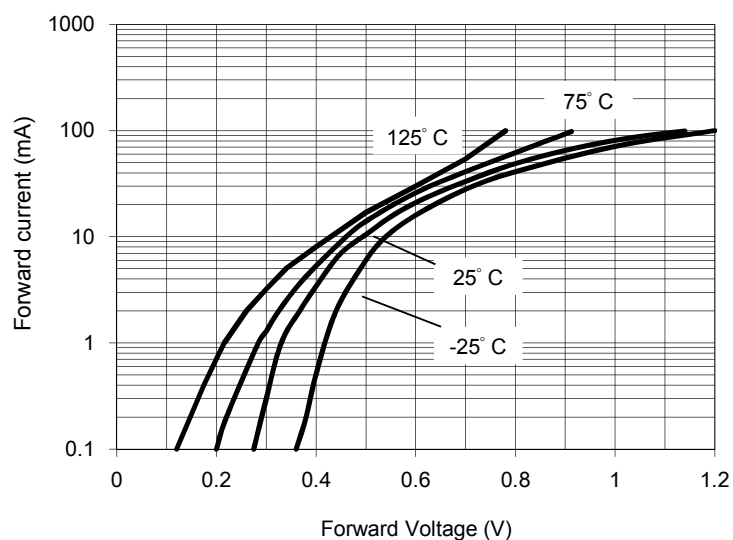


Fig. 2 Reverse Characteristics

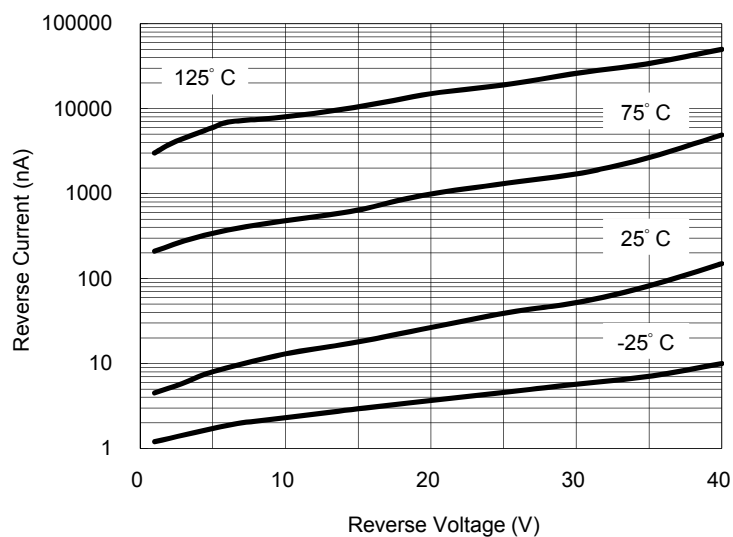


Fig. 3 Capacitance Between Terminals Characteristics

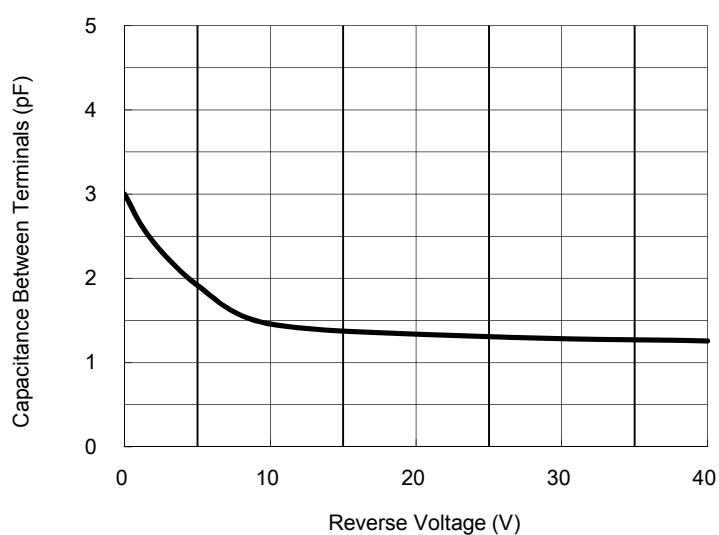
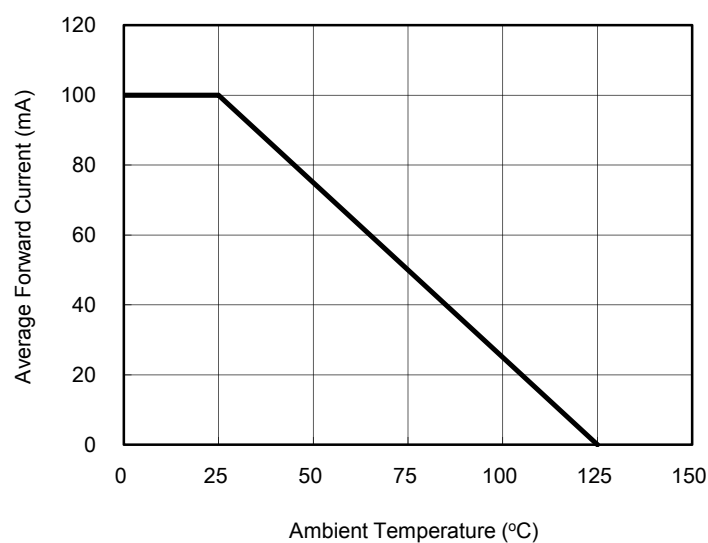


Fig. 4 Current Derating Curve



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ORDERING INFORMATION

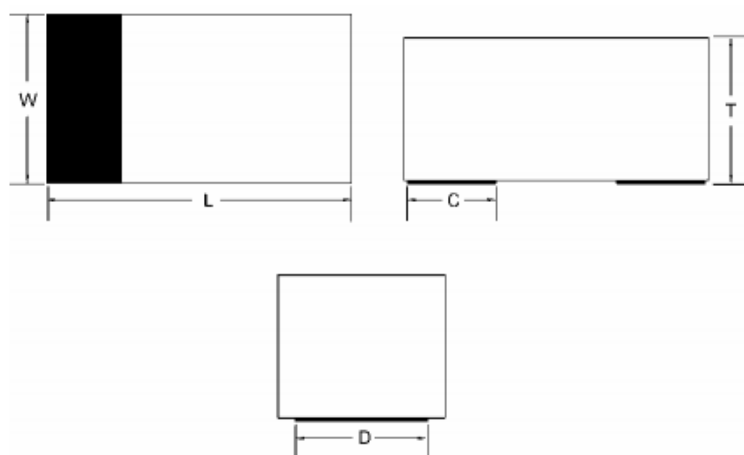
PART NO.	PART NO. SUFFIX (Note 1)	PACKING CODE	PACKING CODE SUFFIX	PACKAGE	PACKING
TSS40L	-xx	RW	G	1005	4K / 7" Reel

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	Typ	Max	Min	Typ	Max
L	2.4	-	2.6	0.094	-	0.102
W	1.1	-	1.3	0.043	-	0.051
T	0.7	-	0.9	0.028	-	0.035
C	-	0.5	-	-	0.020	-
D	-	1.0	-	-	0.039	-

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