

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
- Molding compound, UL flammability classification rating 94V-0
- Terminal: Gold plated, solderable per MIL-STD-750, method 2026
- Polarity: Indicated by cathode band
- Weight: 6 mg (approximately)
- Marking code: B2

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)			
PARAMETER	SYMBOL	VALUE	UNIT
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 8.3ms Single Half Sine-Wave Superimposed on Rate Load	I _{FSM}	500	mA
Power Dissipation	P _d	200	mW
Forward Voltage	I _F = 1.0 mA V _F	0.37	V
Reverse Leakage Current	V _R = 30 V I _R	0.5	μA
		V _R = 40 V 1.0	
Typical Capacitance Between Terminals V _R = 1 V , f = 1.0 MHz Reverse Voltage	C _J	1.5	pF
Junction Temperature	T _J	-40 to + 125	°C
Storage Temperature	T _{STG}	-40 to + 125	°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

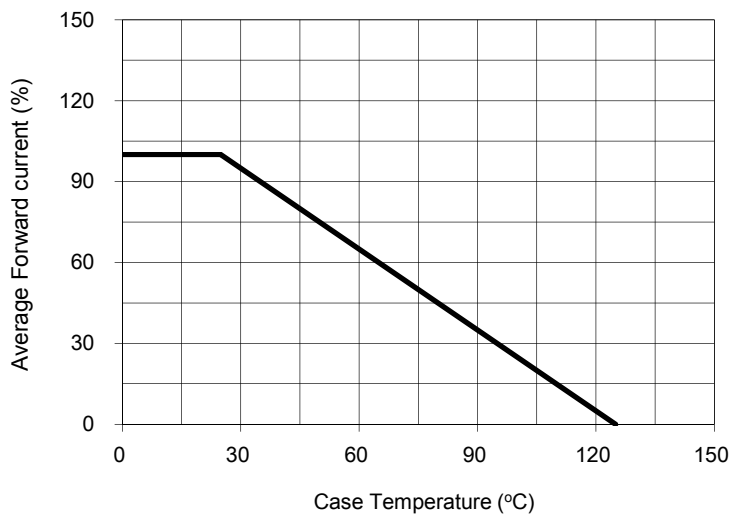


Fig. 2 Typical Reverse Characteristics

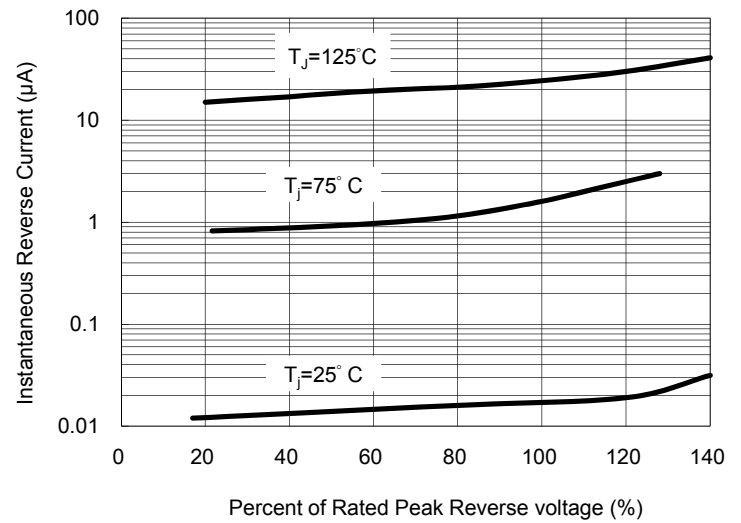


Fig. 3 Maximum Non-Repetitive Forward Surge Current

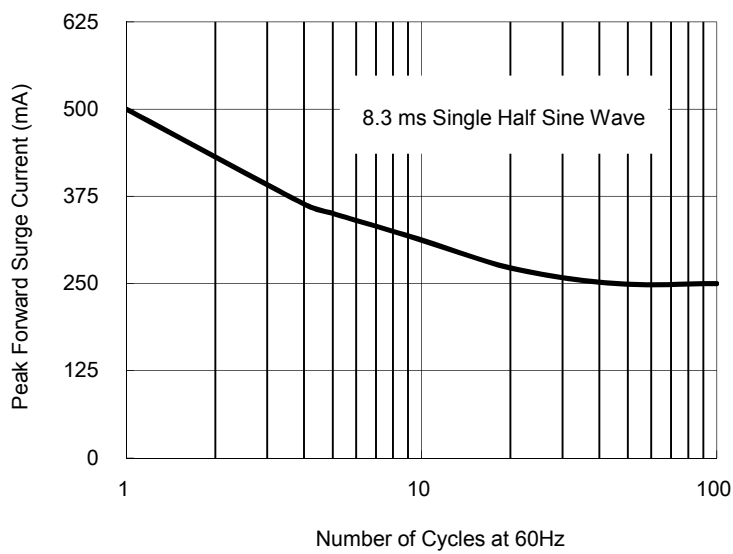


Fig. 4 Typical Junction Capacitance

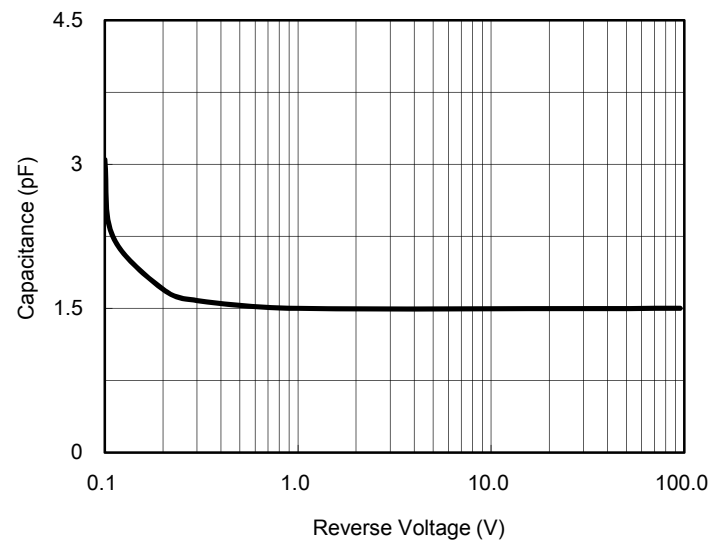
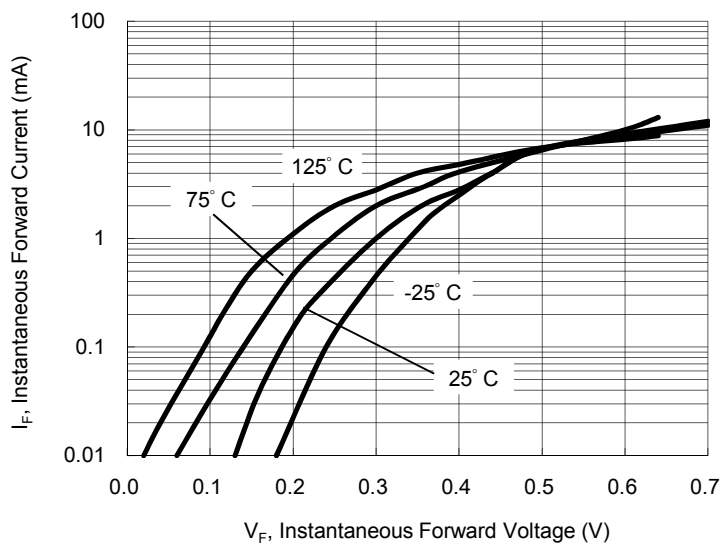


Fig. 5 Forward Characteristics Curve



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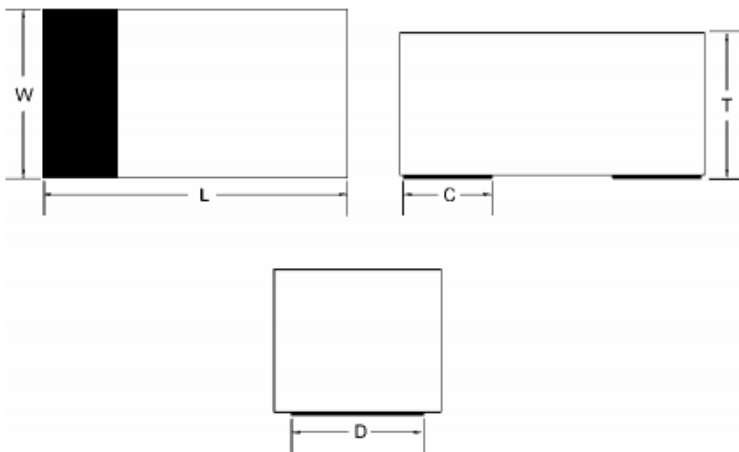
ORDERING INFORMATION					
PART NO.	PART NO. SUFFIX (Note 1)	PACKING CODE	PACKING CODE SUFFIX	PACKAGE	PACKING
TSS0340L	-xx	RW	G	1005	4K / 7" Reel

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
TSS0340L RWG	TSS0340L		RW	G	Multiple manufacture source Green compound
TSS0340L-F0 RWG	TSS0340L	-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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