

# **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: BF

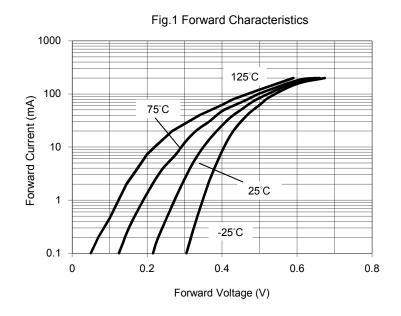
MAXIMUM RATINGS A	ND ELECTRICAL C	HARACTERISTIC	S (T <sub>A</sub> =25°C unless otherwise noted	(b)
PARAN	1ETER	SYMBOL	VALUE	UNIT
Repetitive Peak Reverse Voltage	ge	$V_{RRM}$	30	V
Reverse Voltage		$V_R$	30	V
RMS Reverse Voltage		$V_{R(RMS)}$	21	V
Average Forward Current		Io	200	mA
Repetitive Peak Forward Curre	nt	I <sub>FRM</sub>	0.3	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rate Load		I <sub>FSM</sub>	600	mA
Power Dissipation		Pd	200	mW
Forward Voltage	I <sub>F</sub> = 0.1 mA		0.24	
	$I_F = 1 \text{ mA}$		0.32	
	$I_F = 10 \text{ mA}$	V <sub>F</sub>	0.40	V
	$I_F = 30 \text{ mA}$		0.50	
	$I_F = 100 \text{ mA}$		1.00	
Reverse Leakage Current	V <sub>R</sub> = 25 V	I <sub>R</sub>	2	μA
Typical Capacitance Between Terminals $V_R = 1 \text{ V}$ , $f = 1.0 \text{ MHz}$ Reverse Voltage		CJ	10	pF
Reverse Recovery Time ( $I_F = I_R = 10 \text{mA}$ , $I_{RR} = 0.1 \times I_R$ , $R_L = 100 \Omega$ )		t <sub>rr</sub>	5	ns
Junction Temperature		TJ	-65 to +125	°C
Storage Temperature		T <sub>STG</sub>	-65 to +125	°C

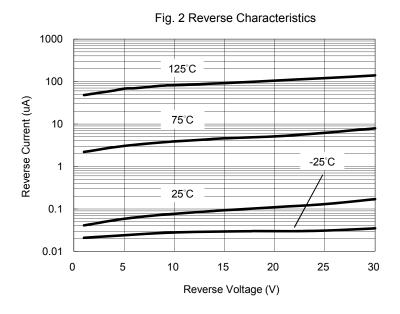
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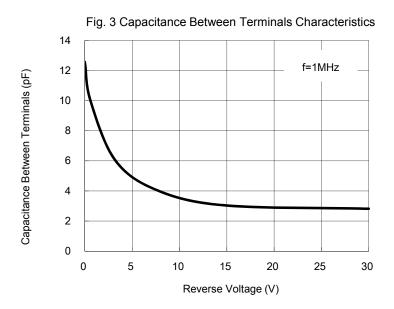


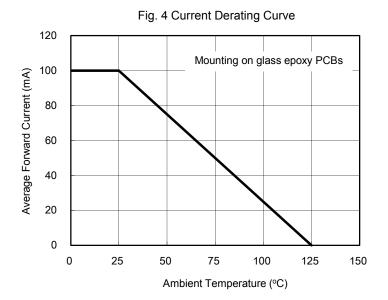
### RATINGS AND CHARACTERISTICS CURVES

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













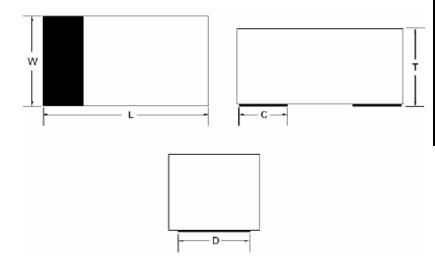
ORDERING INFORMATION						
PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	PACKAGE	PACKING	
TSS54L	-xx (Note 1)	RW	G	1005	4K / 7" Reel	

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
TSS54L RWG	TSS54L		RW	G	Multiple manufacture source Green compound
TSS54L-F0 RWG	TSS54L	-F0	RW	G	Define manufacture source Green compound

## PACKAGE OUTLINE DIMENSION

## 1005



DIM.	Unit (mm)			Unit (inch)		
DIIVI.	Min	Тур	Max	Min	Тур	Max
L	2.40	-	2.60	0.094	-	0.102
W	1.10	-	1.30	0.043	-	0.051
Т	0.70	-	0.90	0.028	1	0.035
С	-	0.50	-	-	0.020	-
D	_	1 00	_	_	0.039	_







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