

# **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: BF

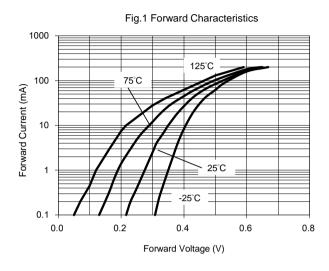


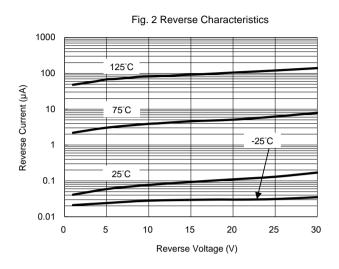
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T <sub>A</sub> =25°C unless otherwise noted)						
PA	RAMETER	SYMBOL	VALUE	UNIT		
Repetitive Peak Reverse Voltage		$V_{RRM}$	30	V		
DC Reverse Voltage		$V_R$	30	V		
RMS Reverse Voltage		$V_{R(RMS)}$	21	V		
Average Forward Current		I <sub>o</sub>	200	mA		
Repetitive Peak Forward Current		I <sub>FRM</sub>	300	mA		
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rate Load		I <sub>FSM</sub>	600	mA		
Power Dissipation		Pd	150	mW		
Forward Voltage	$I_F = 0.1 \text{ mA}$		0.24			
	$I_F = 1 \text{ mA}$		0.32			
	$I_F = 10 \text{ mA}$	$V_{F}$	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 $V_R = 1 \ V$ , $f = 1.0 \ MHz$ Reverse Voltage		C <sub>J</sub>	10	pF		
Reverse Recovery Time ( $I_F = I_R = 10$ mA, $I_{RR} = 0.1$ x $I_R$ , $R_L = 100\Omega$ )		t <sub>rr</sub>	5	ns		
Junction Temperature		T <sub>J</sub>	-65 to +125	°C		
Storage Temperature		T <sub>STG</sub>	-65 to +125	°C		

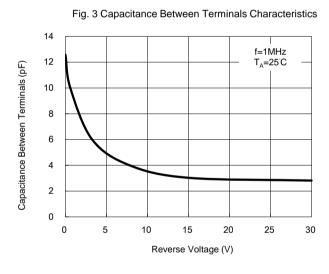


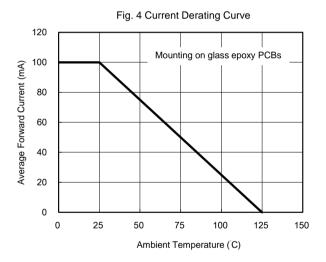
#### **RATINGS AND CHARACTERISTICS CURVES**

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











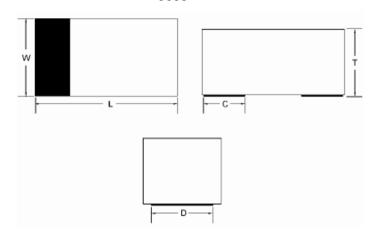
ORDERING INFORMATION					
PART NO.	PACKING CODE	PACKING CODE SUFFIX	PACKAGE	PACKING	
TSS54U	RG	G	0603	4K / 7" Reel	

Note: Whole series with green compound

EXAMPLE					
EXAMPLE PART NO.		PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION	
TSS54U RGG	TSS54U	RG	G	Green compound	

### **PACKAGE OUTLINE DIMENSION**

### 0603



DIM.	ι	Jnit (mm	)		Unit (inch)	1
	Min	Тур.	Max	Min	Тур.	Max
L	1.60	-	1.80	0.063	•	0.071
W	0.80	-	1.00	0.031	•	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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Version: C1601

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