

# **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







#### **MECHANICAL DATA**

- Case: 0603

- Terminal: Gold plated, solderable per

MIL-STD-750, method 2026

Polarity: Indicated by cathode bandWeight: 3 mg (approximately)

- Marking code: BF



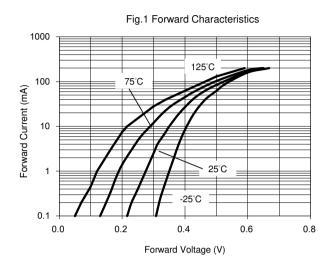
0603

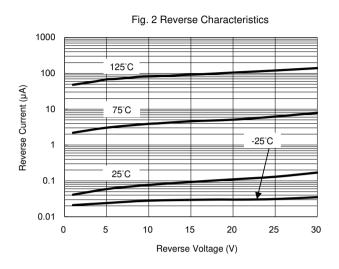
P	ARAMETER	SYMBOL	VALUE	UNIT
Repetitive Peak Reverse Voltage		$V_{RRM}$	30	V
DC Reverse Voltage		V <sub>R</sub>	30	V
RMS Reverse Voltage		$V_{R(RMS)}$	21	V
Average Forward Current		I <sub>o</sub>	200	mA
Repetitive Peak Forward Current		I <sub>FRM</sub>	300	mA
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rate Load		I <sub>FSM</sub>	600	mA
Power Dissipation		Pd	150	mW
Forward Voltage	I <sub>F</sub> = 0.1 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		CJ	10	pF
Reverse Recovery Time			5	
( $I_F = I_R = 10$ mA, $I_{RR} = 0.1 \times I_R$	, R <sub>L</sub> =100Ω )	t <sub>rr</sub>	Э	ns
Junction Temperature		T <sub>J</sub>	-65 to +125	°C
Storage Temperature		T <sub>STG</sub>	-65 to +125	°C

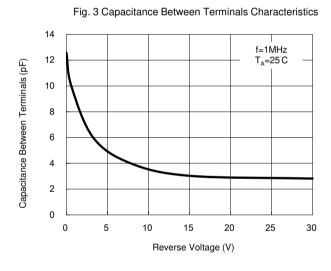


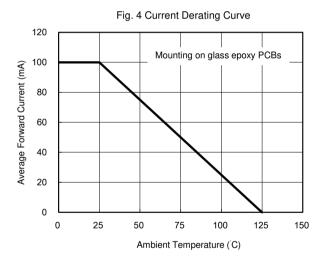
#### **RATINGS AND CHARACTERISTICS CURVES**

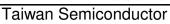
(T<sub>A</sub>=25°C unless otherwise noted)













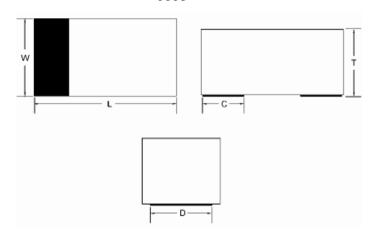
ORDERING INFORMATION					
PART NO.	PACKING CODE	PACKING CODE SUFFIX	PACKAGE	PACKING	
TSS54U	RG	G	0603	4K / 7" Reel	

Note: Whole series with green compound

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

### **PACKAGE OUTLINE DIMENSION**

### 0603



DIM.	Unit (mm)			Unit (inch)		
	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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