

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: BG

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)						
PARAMETER	SYMBOL	VALUE	UNIT			
Repetitive Peak Reverse Voltage	V _{RRM}	70	V			
DC Reverse Voltage	V _R	70	V			
RMS Reverse Voltage	V _{R(RMS)}	49	V			
Average Forward Current	Ι _ο	70	mA			
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rate Load	I _{FSM}	100	mA			
Power Dissipation	Pd	150	mW			
Forward Voltage I _F = 1 mA	V _F	0.41	V			
I _F = 15 mA	v _F	1.00	v			
Reverse Leakage Current V _R = 25 V	I _R	0.1	μA			
Typical Capacitance Between Terminals $V_R = 0 V$, f = 1.0 MHz Reverse Voltage	CJ	2	pF			
Reverse Recovery Time	+	5				
$(I_{F}=I_{R}=10mA, I_{RR}=0.1 \times I_{R}, R_{L}=100\Omega)$	t _{rr}	5	ns			
Junction Temperature	TJ	-65 to +125	°C			
Storage Temperature	T _{STG}	-65 to +125	°C			



RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)

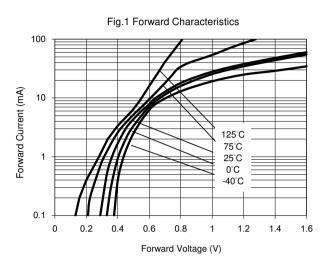
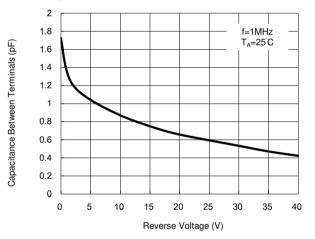
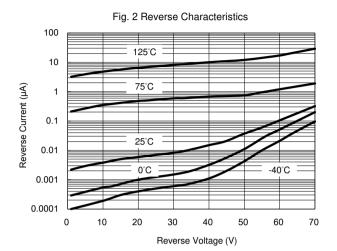
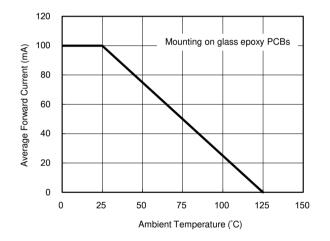


Fig. 3 Capacitance Between Terminals Characteristics









Taiwan Semiconductor

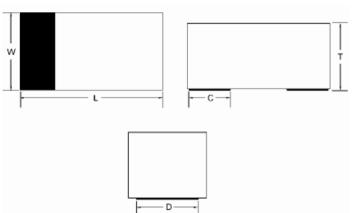
ORDERING INFORMATION					
PART NO.	PACKING CODE	PACKING CODE SUFFIX	PACKAGE	PACKING	
TSS70U	RG	G	0603	4K / 7" Reel	

Note: Whole series with green compound

EXAMPLE					
EXAMPLE PART NO. PART NO.		PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION	
TSS70U RGG	TSS70U	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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