

Small Signal Product

Surface Mount Schottky Barrier

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)





0603



MECHANICAL DATA

- Case: 0603

 Terminal: Gold plated, solderable per MIL-STD-750, method 2026

Polarity: Indicated by cathode bandWeight: 0.003 g (approximately)Marking code: TSS42U: BD

TSS43U: BE

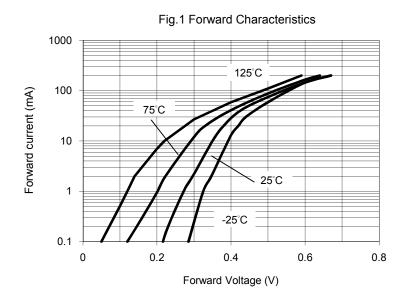
MAXIMUM RATINGS A	ND ELECTRICAL CHARAC	TERISTIC	S (T _A =25°C unless otherwise noted)	
PAR	AMETER	SYMBOL	VALUE	UNIT
Repetitive Peak Reverse Volta	age	V_{RRM}	30	V
Reverse Voltage		V_R	30	V
RMS Reverse Voltage		$V_{R(RMS)}$	21	V
Average Forward Current		Io	200	mA
Repetitive Peak Forward Curre	ent	I _{FRM}	500	mA
Non-Repetitive Peak Forward Pulse Width = 8.3 ms (Single I	•	I _{FSM}	4.0	А
Power Dissipation		P_{D}	150	mW
Forward Voltage	TSS42U/43U $I_F = 200 \text{ mA}$		1.00	
	TSS42U $I_F = 10 \text{ mA}$		0.40	
	TSS42U $I_F = 50 \text{ mA}$	V_{F}	0.65	V
	TSS43U $I_F = 2 \text{ mA}$		0.33	
	TSS43U $I_F = 15 \text{ mA}$		0.45	
Reverse Leakage Current	V _R = 25 V	I _R	0.5	μΑ
Typical Capacitance Between	Terminals (V _R =1V, f=1.0MHz)	CJ	10	pF
Reverse Recovery Time	(Note 1)	t _{rr}	5	ns
Thermal Resistance	nal Resistance (Junction to Ambient)		667	°C/W
Operation Junction Temperatu	ıre Range	T _J	-55 to +125	°C
Storage Temperature Range		T_{STG}	-55 to +125	°C

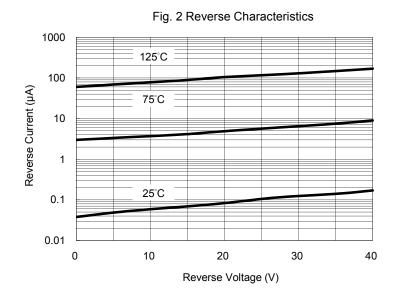
Note 1: Test conditions : $I_F = I_R = 10$ mA, $Irr = 0.1 \times I_R$, $R_L = 100 \Omega$

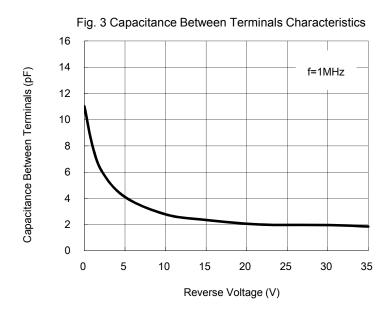


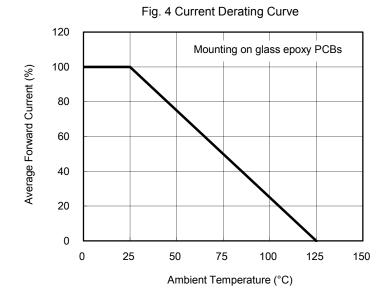
RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)













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ORDERING INFORMATION						
PART NO.	PART NO.	PACKING CODE	PACKING CODE	PACKAGE	PACKING	
	SUFFIX	PACKING CODE	SUFFIX			
TSS4xU (Note 1)	-xx (Note 2)	RZ	G	0603	5K / 7" Reel	

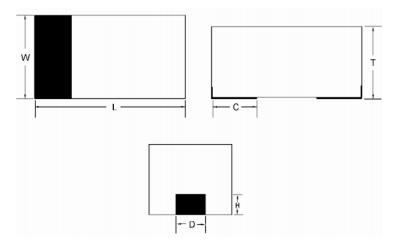
Note 1: "x" is Device Code from "2" thru "3".

Note 2: Part No. Suffix "-xx " would be used for special requirement

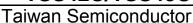
EXAMPLE						
PREFERRED	PART NO.	PART NO.	PACKING CODE	PACKING CODE	DESCRIPTION	
PART NO.		SUFFIX		SUFFIX		
TSS42U RZG	TSS42U		RZ	G	Multiple manufacture source Green compound	
TSS42U-F0 RZG	TSS42U	-F0	RZ	G	Define manufacture source Green compound	

PACKAGE OUTLINE DIMENSION

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DIM.	Unit (mm)			Unit (inch)		
	Min	Тур	Max	Min	Тур	Max
L	1.60	-	1.80	0.063	-	0.071
W	0.80	1	1.00	0.031	-	0.039
Т	0.70	-	0.85	0.028	-	0.033
С	-	0.35	-	-	0.014	-
D	_	0.45	-	_	0.018	-
Н	_	0.30	_	_	0.012	_





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Document Number: DS_S1411011 Version: C14