Small Signal Product

Taiwan Semiconductor

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 bandWeight: 0.003 g (approximately)Marking code: TSS42U: BD

TSS43U: BE



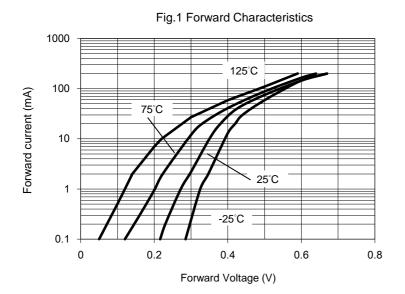
	ND ELECTRICAL CHARAC AMETER	SYMBOL	VALUE	UNIT
Repetitive Peak Reverse Volta	age	V_{RRM}	30	V
Reverse Voltage		V_R	30	V
RMS Reverse Voltage		$V_{R(RMS)}$	21	V
Average Forward Current		Io	200	mA
Repetitive Peak Forward Curr	ent	I _{FRM}	500	mA
Non-Repetitive Peak Forward Pulse Width = 8.3 ms (Single		I _{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	(Junction to Ambient)	$R_{\theta JA}$	667	°C/W
Operation Junction Temperatu	ıre Range	T_J	-55 to +125	°C
Storage Temperature Range		T _{STG}	-55 to +125	°C

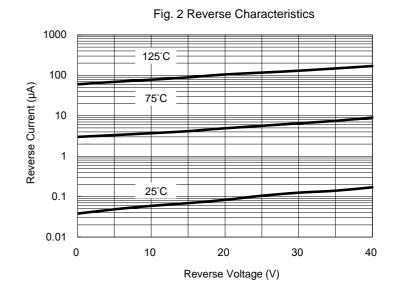
Note 1: Test conditions : $I_F = I_R = 10$ mA, $Irr = 0.1 \times I_R$, $R_L = 100 \Omega$

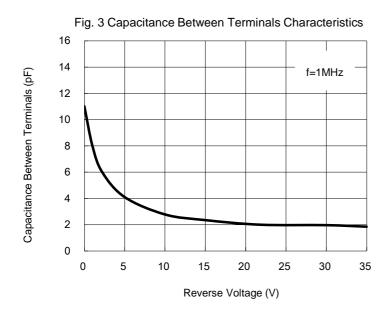


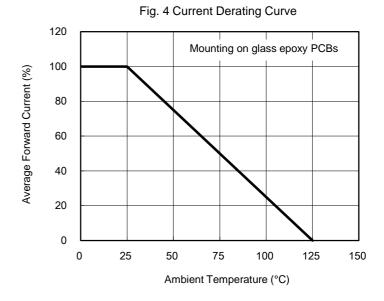
RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)











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ORDERING INFORMATION						
PART NO.	PACKING CODE	PACKING CODE SUFFIX	PACKAGE	PACKING		
TSS4xU (Note 1, 2)	RG	G	0603	4K / 7" Reel		

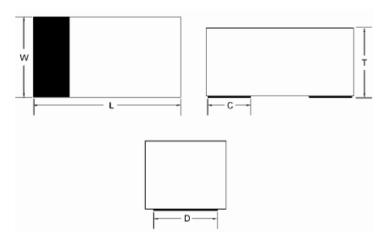
Note 1: "x" is Device Code from "2" - "3".

Note 2: Whole series with green compound

EXAMPLE						
EXAMPLE PART NO.	PART NO.	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION		
TSS42U RGG	TSS42U	RG	G	Green compound		

PACKAGE OUTLINE DIMENSION

0603



DIM.	ι	Jnit (mm	1)		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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Version: D1601

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