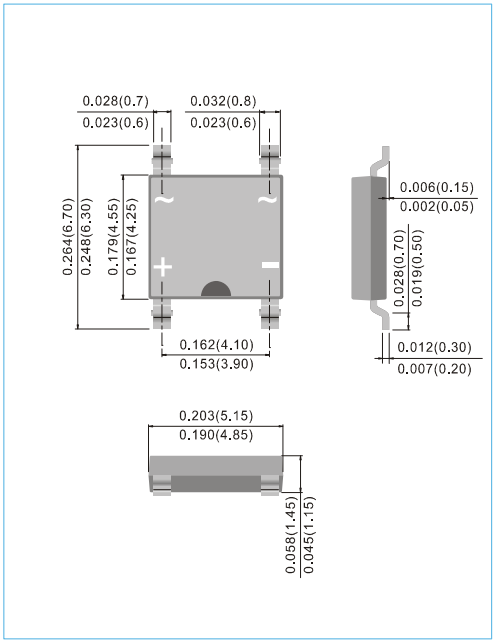
TS1100S

MICRO SURFACE MOUNT SCHOTTKY BRIDGE

VOLTAGE 100 Volt **CURRENT** 1 Ampere

MICRO DIP / TDI Unit : inch(mm)



FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O. Flame Retardant Epoxy Molding Compound.
- Low power loss, high efficiency.
- Low forward voltage, high current capability
- High surge capacity.
- Super fast recovery times, high voltage.
- Epitaxial chip construction.
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: MICRO DIP / TDI Molded plastic
- Terminals: Lead solderable per MIL-STD-750, Method 2026
- Polarity: As marked.
- Standard packaging: Any
- Weight: 0.003 ounce, 0.09 gram

ABSOLUTE MAXIMUM RATINGS (If not specified T_A=25°C)

PARAMETER	SYMBOL	VALUE	UNITS
Maximum Peak Repetitve Reverse Voltage	V_{RRM}	100	V
Maximum RMS Reverse Voltage	V_{RMS}	71	V
Maximum DC Blocking Voltage	V_{DC}	100	V
Maximum Average Forward Current	$I_{F(AV)}$	1	A
Non-Repetitive Peak Surge Current (Surge applied at rate Load conditions halfware, single phase, 60Hz)	I_{FSM}	30	A
Maximum Thermal Resistance (Note 1)	$R_{\theta JA}$	85	°C/W
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	145	°C/W
Typical Thermal Resistance(Note 1)	$R_{\theta JC}$	35	°C/W
Operating Junction and Storage Temperature Range	T_J,T_{STG}	-50 to +125	°C

NOTE :

1.Mounted on a FR4 PCB, single-sided copper, with 100cm^2 copper pad area

2.Mounted on a FR4 PCB, single-sided copper, mini pad

TS1100S

ELECTRICAL CHARACTERISTICS (If not specified T_A=25°C)

PARAMETER	SYMBOL	CONDITIONS	MIN.	TYP.	MAX.	UNIT
Reverse Current	I_R	V_R=100V	-	0.3	10	μA
Reverse Breakdown Voltage	$V_{(BR)R}$	I_R=150μA	100	115	-	V
Forward Voltage	V_F	I_F=500mA	-	650	700	mV
Forward Voltage	V_F	I_F=1A	-	730	750	mV
Typical Junction Capacitance	C_J	V_R=4V,f=1MHz	-	85	-	pF

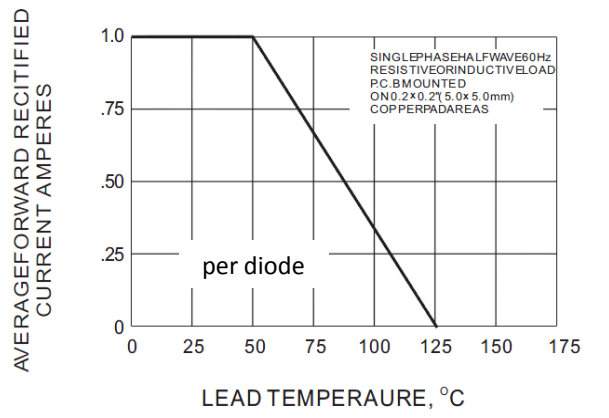


Fig.1 Forward Current Derating Curve

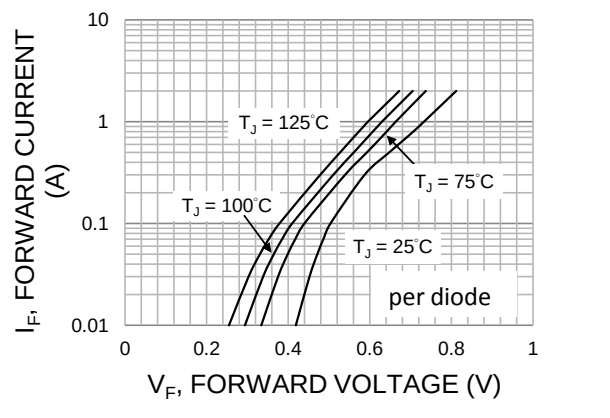


Fig.2 Typical Junction Capacitance

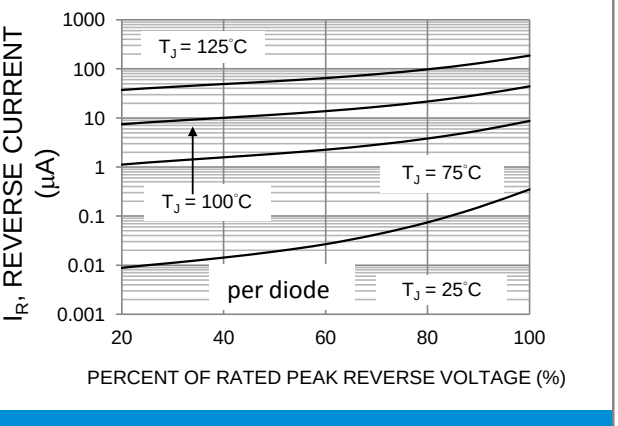


Fig.3 Typical Reverse Characteristics

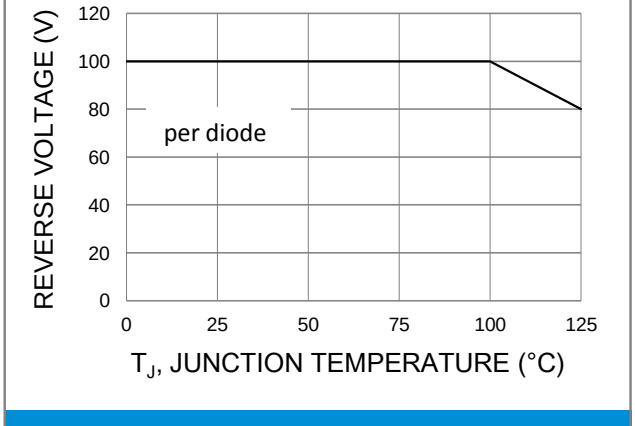


Fig.4 Operating Temperature Derating Curve

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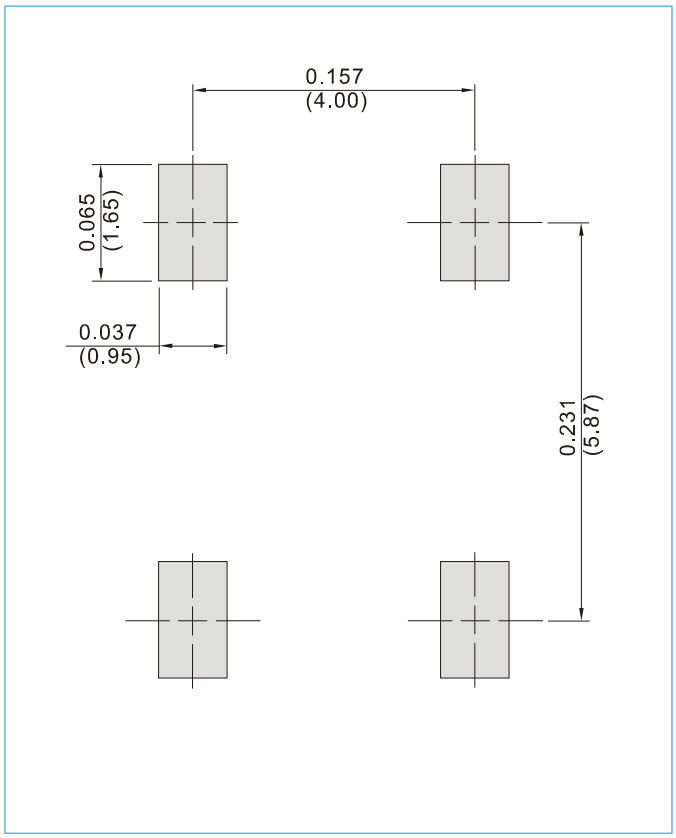
MOUNTING PAD LAYOUT

MICRO DIP / TDI Unit : inch(mm)



ORDER INFORMATION

- Packing information

  T/R - 4K per 13" plastic Reel

  T/R - 1K per 7" plastic Reel

TS1100S

Part No_packing code_Version

TS1100S_R1_00001

TS1100S_R2_00001

For example :

RB500V-40_R2_00001

Part No.

Serial number

Version code means HF

Packing size code means 13"

Packing type means T/R

Packing Code XX				Version Code XXXXX		
Packing type	1st Code	Packing size code	2nd Code	HF or RoHS	1st Code	2nd~5th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			

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