



# TS1100S

## MICRO SURFACE MOUNT SCHOTTKY BRIDGE

**VOLTAGE** 100 Volts **CURRENT** 1.0 Amperes

TDI(MICRO DIP)

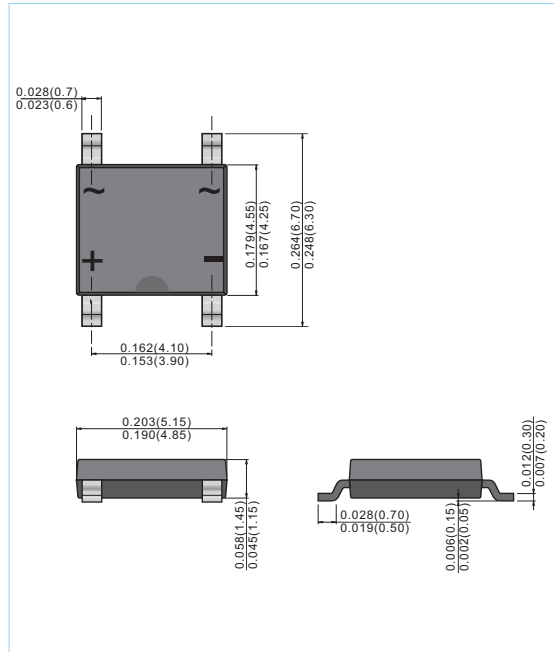
Unit : inch(mm)

### FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O. Flame Retardant Epoxy Molding Compound.
- Exceeds environmental standards of MIL-S-19500/228
- Low power loss, high efficiency.
- Low forward voltage, high current capability
- High surge capacity.
- Super fast recovery times, high voltage.
- Epitaxial chip construction.
- In compliance with EU RoHS 2002/95/EC directives

### MECHANICAL DATA

- Case: MDI Molded plastic
- Terminals: Lead solderable per MIL-STD-750, Method 2026
- Polarity: As marked.
- Standard packaging: Any
- Weight: 0.090 grams.



### ABSOLUTE MAXIMUM RATINGS (If not specified $T_A=25^{\circ}\text{C}$ )

PARAMETER	SYMBOL	TS1100S	UNITS
Maximum Peak Repetitive 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 $T_c = 50^{\circ}\text{C}$	$I_{F(AV)}$	1	A
Non-Repetitive Peak Surge Current (Surge applied at rate Load conditions halfwave, single phase, 60Hz)	$I_{FSM}$	30	A
Maximum Thermal Resistance	$R_{\theta JA}$	85	$^{\circ}\text{C/W}$
Operating Junction and Storage Temperature Range	$T_J, T_{STG}$	-50 to +125	$^{\circ}\text{C}$

PRELIMINARY



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## ELECTRICAL CHARACTERISTICS (If not specified $T_A=25^{\circ}\text{C}$ )

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

## RATING AND CHARACTERISTIC CURVES

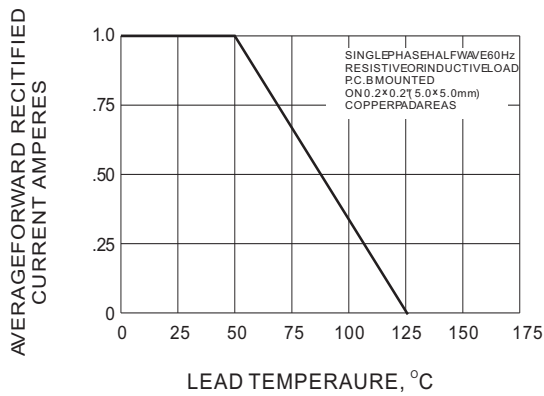


Fig.1- FORWARD CURRENT DERATING CURVE

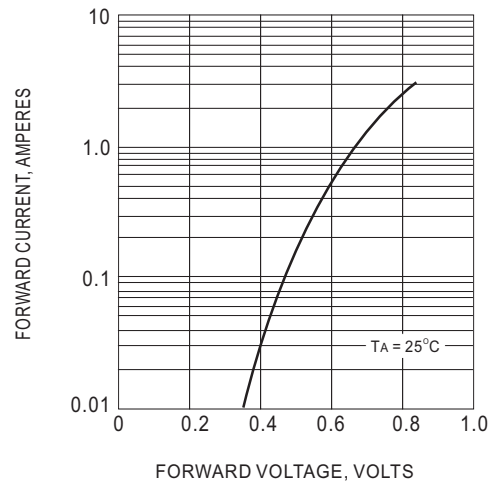
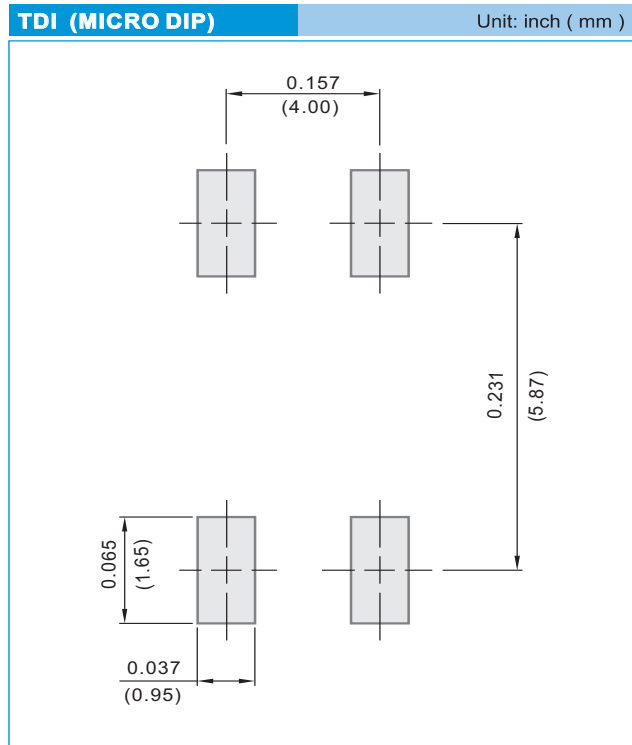


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC



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## MOUNTING PAD LAYOUT



## ORDER INFORMATION

- Packing information
  - T/R - 4K per 13" plastic Reel
  - T/R - 1K per 7" plastic Reel

## LEGAL STATEMENT

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