

TS1100S

MICRO SURFACE MOUNT SCHOTTKY BRIDGE

VOLTAGE 100 Volts **CURRENT** 1.0 Amperes

FEATURES

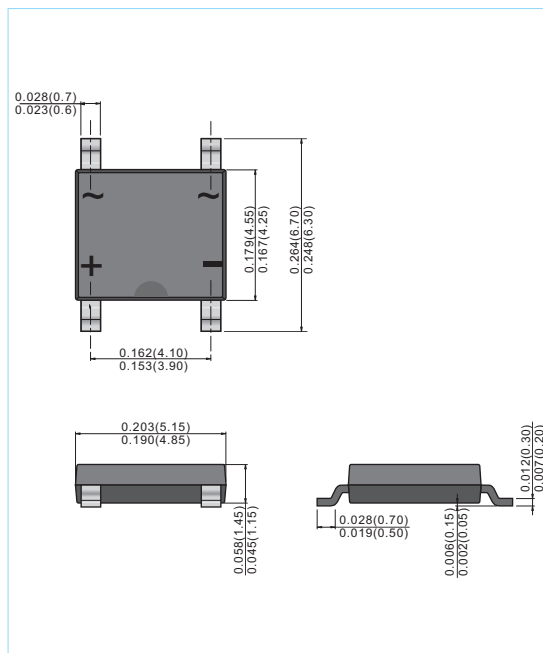
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O. Flame Retardant Epoxy Molding Compound.
- Exceeds environmental standards of MIL-S-19500/228
- Low power loss, high efficiency.
- Low forward voltage, high current capability
- High surge capacity.
- Super fast recovery 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.

TDI(MICRO DIP)

Unit : inch(mm)



ABSOLUTE MAXIMUM RATINGS (If not specified T_A=25°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 °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 _{θJA}	85	°C/W
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-50 to +125	°C

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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	μA
Reverse breakdown voltage	$V_{(BR)R}$	$I_R=150\mu\text{A}$	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

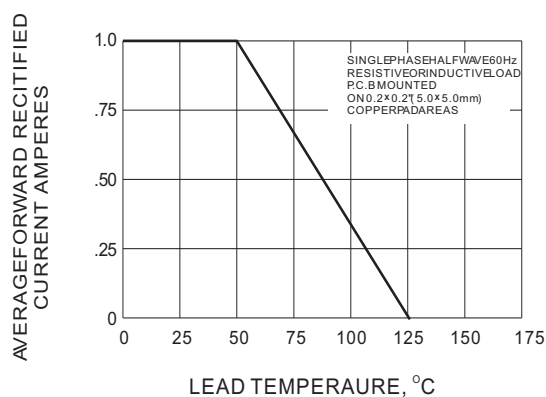


Fig.1- FORWARD CURRENT DERATING CURVE

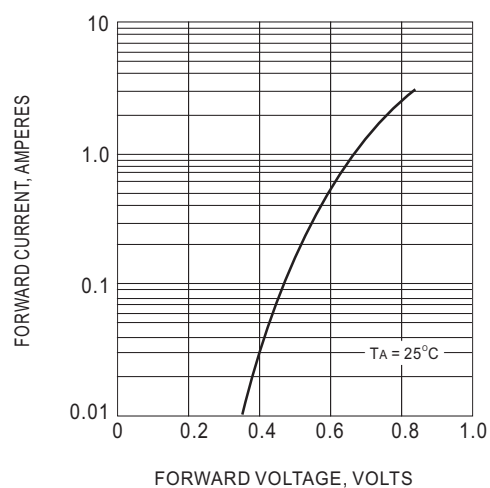
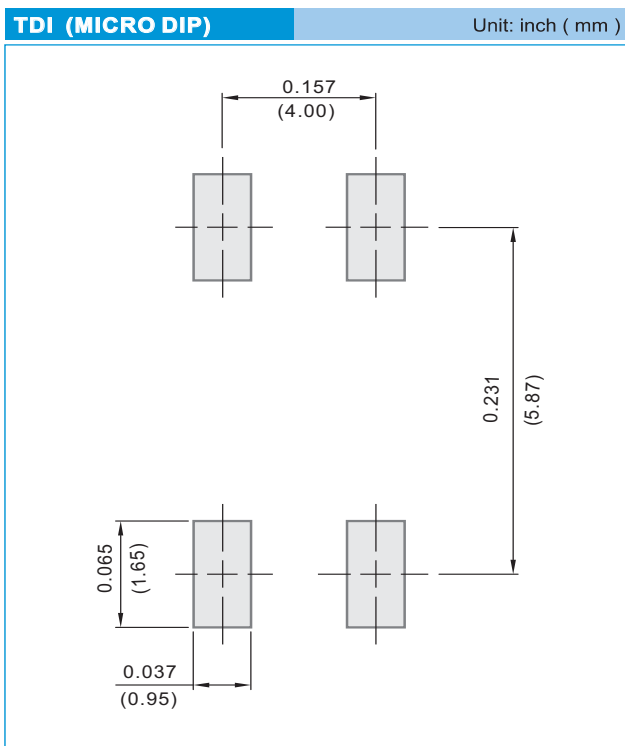


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

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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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