



TS2100S

MICRO SURFACE MOUNT SCHOTTKY BRIDGE

VOLTAGE 100 Volts **CURRENT** 2.0 Amperes

TDI(MICRO DIP)

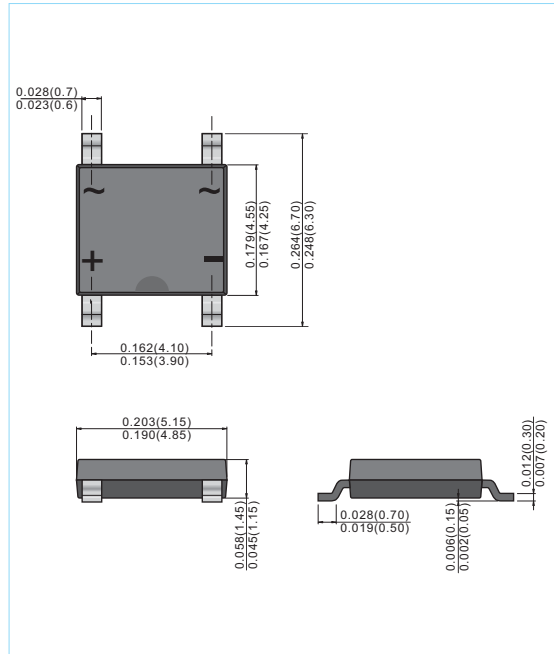
Unit : inch(mm)

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°C)

PARAMETER	SYMBOL	TS2100S	UNITS
Maximum Peak Repetitive Reverse Voltage	V _{RRM}	100	V
Maximum RMS Reverse Voltage	V _{RMS}	70	V
Maximum DC Blocking Voltage	V _{DC}	100	V
Maximum Average Forward Current T _c =50 °C	I _{F(AV)}	2	A
Non-Repetitive Peak Surge Current (Surge applied at rate Load conditions halfware, single phase, 60Hz)	I _{FSM}	50	A
Maximum Thermal Resistance	R _{θJA}	85	°C/W
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-50 to +125	°C

PRELIMINARY



TS2100S

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

PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX.	UNIT
Reverse Current	I_R	$V_R=100\text{V}$	-	0.5	4	μA
Reverse breakdown voltage	$V_{(BR)R}$	$I_R=150\mu\text{A}$	100	115	-	V
Forward Voltage	V_F	$I_F=2\text{A}$		770	840	mV
Typical Junction capacitance (Note 1)	C_J	$V_R=4\text{V}, f=1\text{MHz}$	-	110	-	pF

RATING AND CHARACTERISTIC CURVES

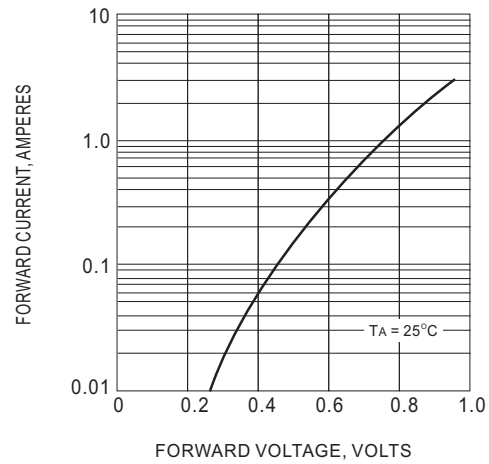
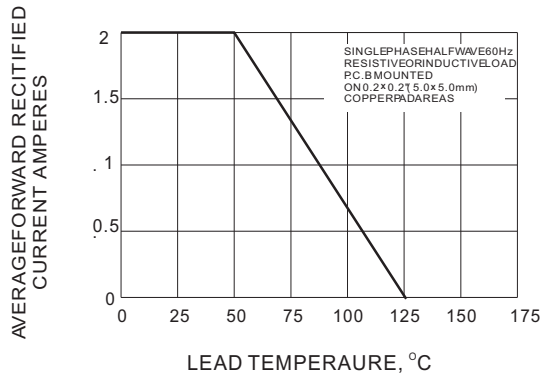


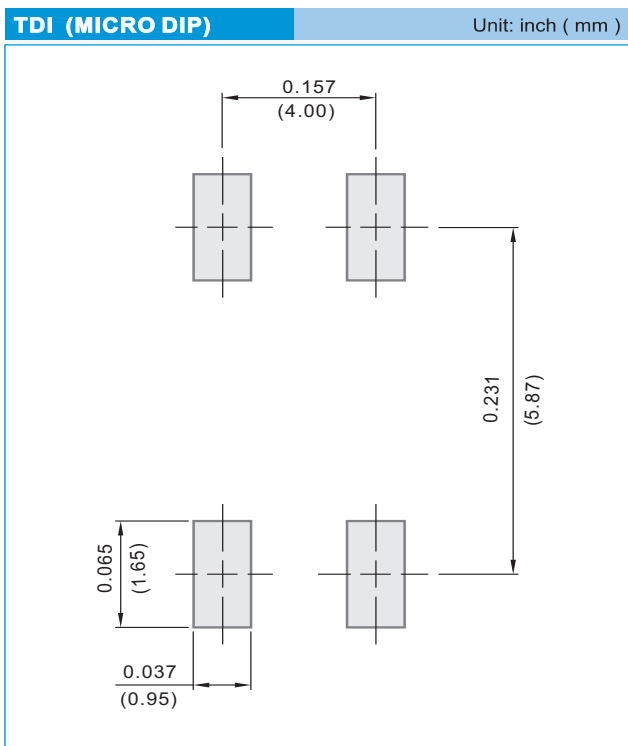
Fig.1- FORWARD CURRENT DERATING CURVE

Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC



TS2100S

MOUNTING PAD LAYOUT



ORDER INFORMATION

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

LEGAL STATEMENT

Copyright PanJit International, Inc 2009

The information presented in this document is believed to be accurate and reliable. The specifications and information herein are subject to change without notice. Pan Jit makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose. Pan Jit products are not authorized for use in life support devices or systems. Pan Jit does not convey any license under its patent rights or rights of others.