

TS2100S

MICRO SURFACE MOUNT SCHOTTKY BRIDGE

VOLTAGE 100 Volts **CURRENT** 2 Amperes

FEATURES

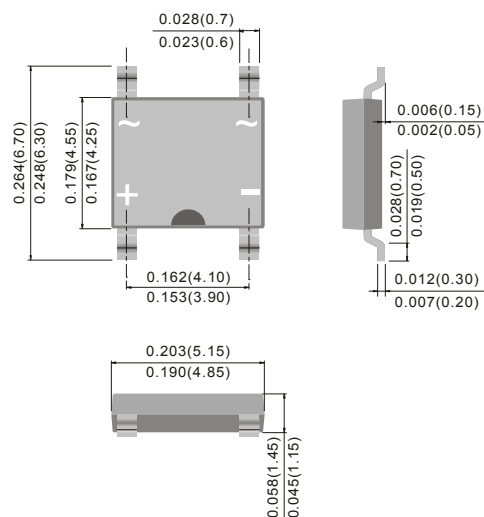
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O. Flame Retardant Epoxy Molding Compound.
- Exceeds environmental standards of MIL-S-19500/228
- Low power loss, high efficiency.
- Low forward voltage, high current capability
- High surge capacity.
- Super fast recovery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

MICRO DIP / TDI

Unit : inch(mm)



ABSOLUTE MAXIMUM RATINGS (T_A=25°C unless otherwise noted)

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 _R	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
Typical Thermal Resistance, Junction to Ambient (Note1)	R _{θJA}	135	°C/W
Operating Junction Temperature and Storage Temperature Range	T _J , T _{STG}	-50 to +125	°C

NOTES:

1. Mounted on minimum pad layout(1cmX1cm FR-4 board).

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ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$ unless otherwise noted)

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

RATING AND CHARACTERISTIC CURVES

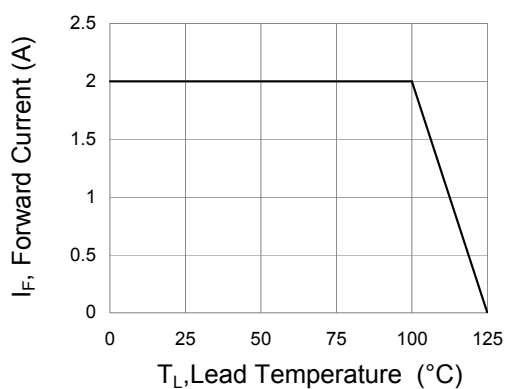


Fig.1 Forward Current Derating Curve

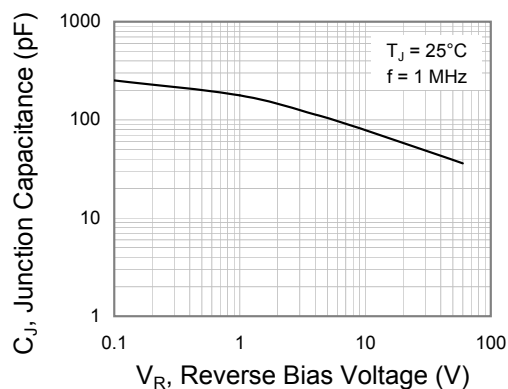


Fig.2 Typical Junction Capacitance

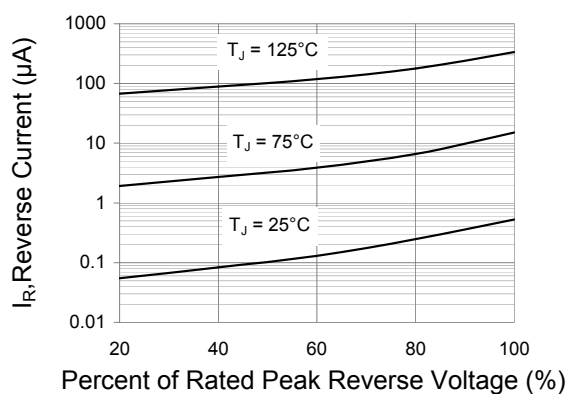


Fig.3 Typical Reverse Characteristics

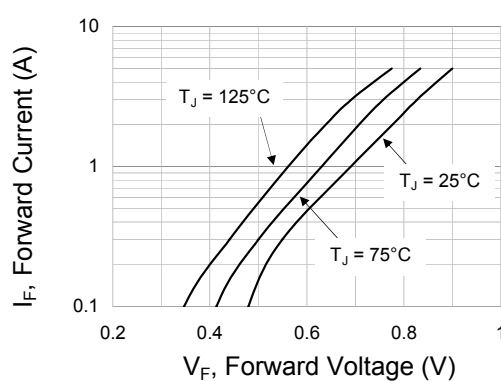


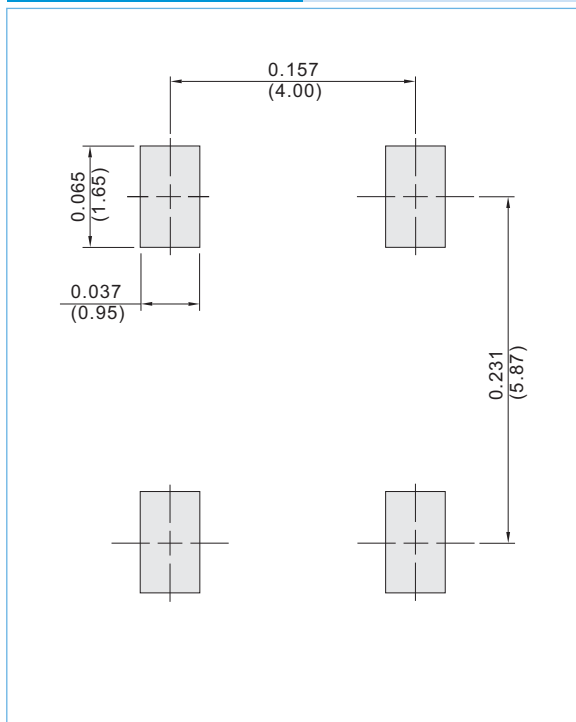
Fig.4 Typical Forward Characteristics

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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

LEGAL STATEMENT

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HALOGEN FREE PRODUCT DECLARATION

(Use green molding compound:ELER-8)

1. Pan Jit can produce halogen free product use molding compound for packing from Mar.2008 that contain Br<700 ppm,Cl<700ppm, Br+Cl<1000ppm,Sb₂O₃<100ppm.
2. If your company need halogen free product shall be note requirement green compound material on order for the halogen free product request.