



#### MICRO SURFACE MOUNT SCHOTTKY BRIDGE

VOLTAGE 100 Volt CURRENT 2 Ampere

#### **FEATURES**

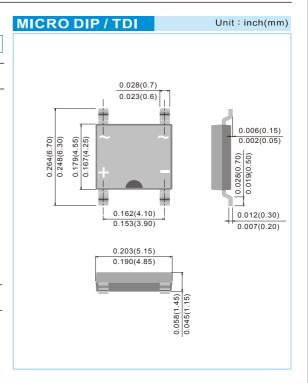
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O.
   Flame Retardant Epoxy Molding Compound.
- Exceeds environmental standards of MIL-S-19500/228
- · Low power loss, high efficiency.
- · Low forwrd voltge, high current capability
- · High surge capacity.
- · Super fast 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: MDI Molded plastic

• Terminals: Lead solderable per MIL-STD-750, Method 2026

Polarity: As marked.Standard packaging: AnyWeight: 0.090 grams.



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

PARAMETER	SYMBOL	TS2100S	UNITS
Maximum Peak Repetitve Reverse Voltage	V <sub>RRM</sub>	100	V
Maximum RMS Reverse Voltage	V <sub>RMS</sub>	70	٧
Maximum DC Blocking Voltage	V <sub>R</sub>	100	V
Maximum Average Forward Current T c =50 °C	I <sub>F(AV)</sub>	2	Α
Non-Repetitive Peak Surge Current (Surge applied at rate Load conditions halfware, single phase, 60Hz)	FSM	50	А
Typical Thermal Resistance, Junction to Ambient (Note1)	R <sub>eJA</sub>	95	°C/W
Operating Junction Temperature Range	Тл	-55 to +125	°C
Storage Temperature Range	Тѕтс	-55 to +150	°C

### NOTES:

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

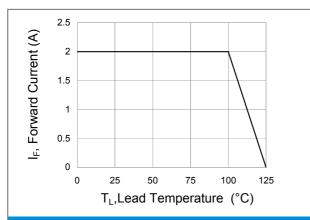




### ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise noted)

PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX.	UNIT
Reverse Current	l R	V <sub>R</sub> =100V	-	-	4	μΑ
Reverse breakdown voltage	V(BR)R	I R=150μA	100	-	-	V
Forward Voltage	VF	IF=2A	-	770	840	mV
Typical Junction capacitance	Сл	VR=4V,f=1MHz	-	110	-	pF

### **RATING AND CHARACTERISTIC CURVES**



**Fig.1 Forward Current Derating Curve** 

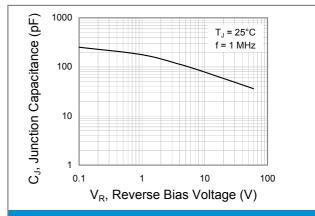


Fig.2 Typical Junction Capacitance

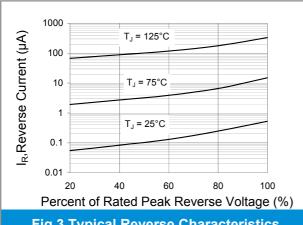


Fig.3 Typical Reverse Characteristics

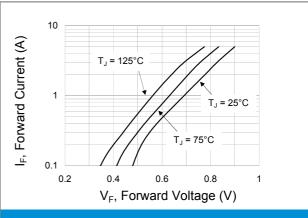


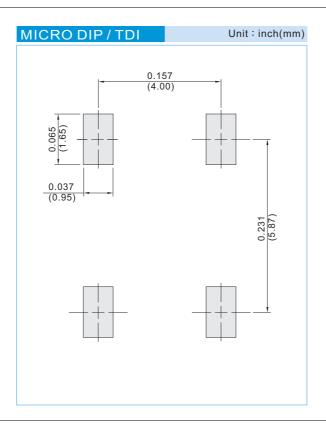
Fig.4 Typical Forward Characteristics

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### **MOUNTING PAD LAYOUT**



### **ORDER INFORMATION**

Packing information

T/R - 4K per 13" plastic Reel

T/R - 1K per 7" plastic Reel





### Part No\_packing code\_Version

TS2100S\_R1\_00001 TS2100S\_R2\_00001

### For example:



Packing Code XX			Version Code XXXXX			
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	Т	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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