



# TS140S

## MICRO SURFACE MOUNT SCHOTTKY BRIDGE

**VOLTAGE** 40 Volt **CURRENT** 1 Ampere

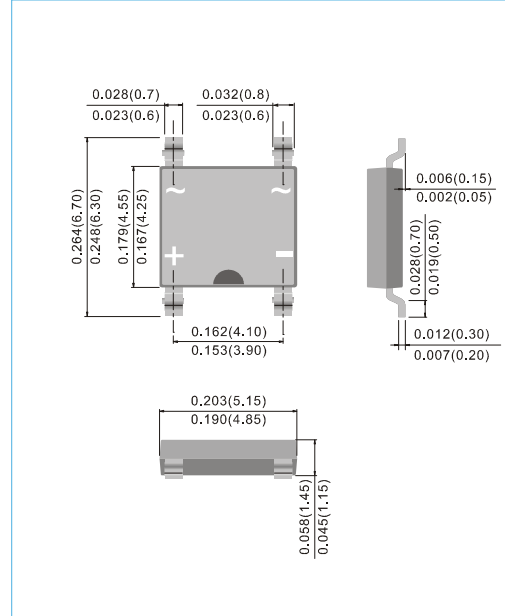
**MICRO DIP / TDI** Unit : inch(mm)

### 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.
- Lead free in compliance with EU RoHS 2011/65/EU directive

### MECHANICAL DATA

- Case: TDI plastic
- Terminals: Lead solderable per MIL-STD-750, Method 2026
- Polarity: As marked.
- Standard packaging: Any
- Weight: 0.003 ounces, 0.090 grams.



### ABSOLUTE MAXIMUM RATINGS (T<sub>A</sub>=25°C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNITS
Peak Reverse Voltage	V <sub>RRM</sub>	40	V
RMS Reverse Voltage	V <sub>RMS</sub>	28	V
DC Blocking Voltage	V <sub>R</sub>	40	V
Average Rectified Current	I <sub>F(AV)</sub>	1	A
Peak Forward Surge Current: 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	30	A
Typical Thermal Resistance, Junction to Ambient (Note 1)	R <sub>θJA</sub>	95	°C/W
Junction to Case (Note 2)	R <sub>θJC</sub>	70	°C/W
Operating Junction Temperature and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to +150	°C

### NOTES:

1. Mounted on minimum pad layout .
2. Mounted on 48cm<sup>2</sup> PCB board.

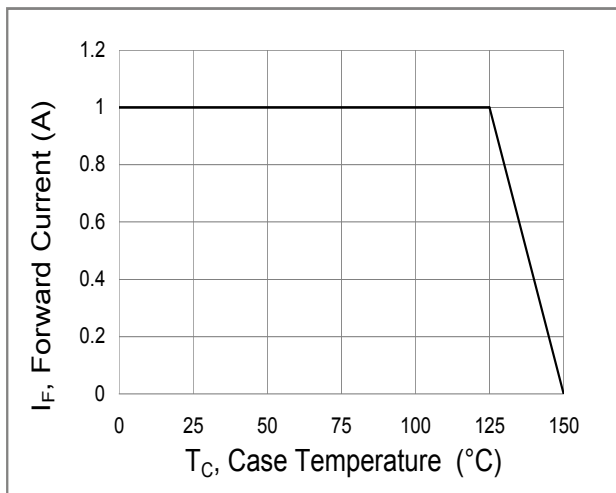


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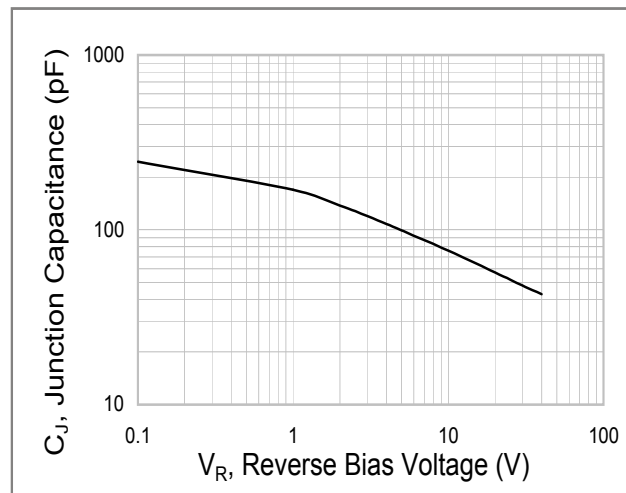
## ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C unless otherwise noted)

PARAMETER	SYMBOL	Test Condition	MIN.	TYP.	MAX.	UNITS
Reverse Breakdown Voltage	V <sub>(BR)</sub>	I <sub>R</sub> =0.1mA	40	--	--	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =40V	--	--	100	μA
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =0.7A I <sub>F</sub> =1.0A	--	0.43 0.46	-- 0.5	V
Typical Junction Capacitance	C <sub>J</sub>	V <sub>R</sub> =0V, f=1.0MHz	--	255	--	pF

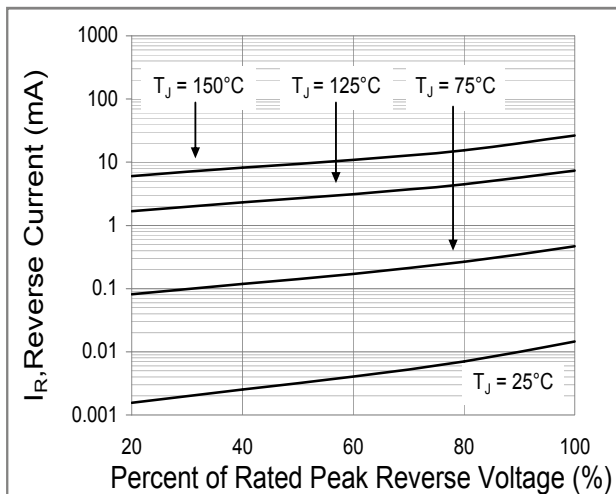
### RATING AND CHARACTERISTIC CURVES



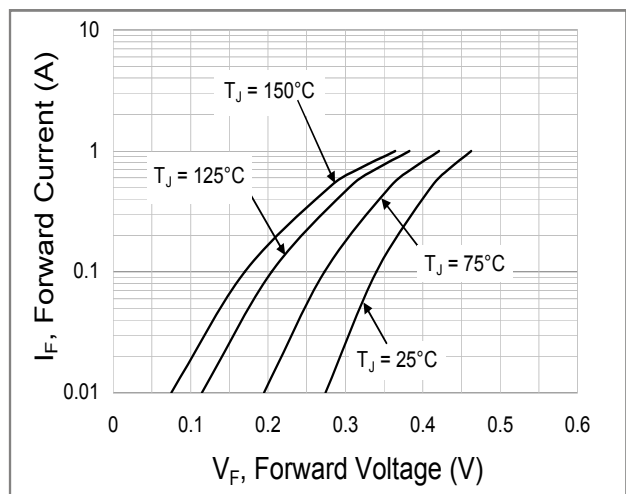
**Fig.1 Forward Current Derating Curve**



**Fig.2 Typical Junction Capacitance**



**Fig.3 Typical Reverse Characteristics**



**Fig.4 Typical Forward Characteristics**

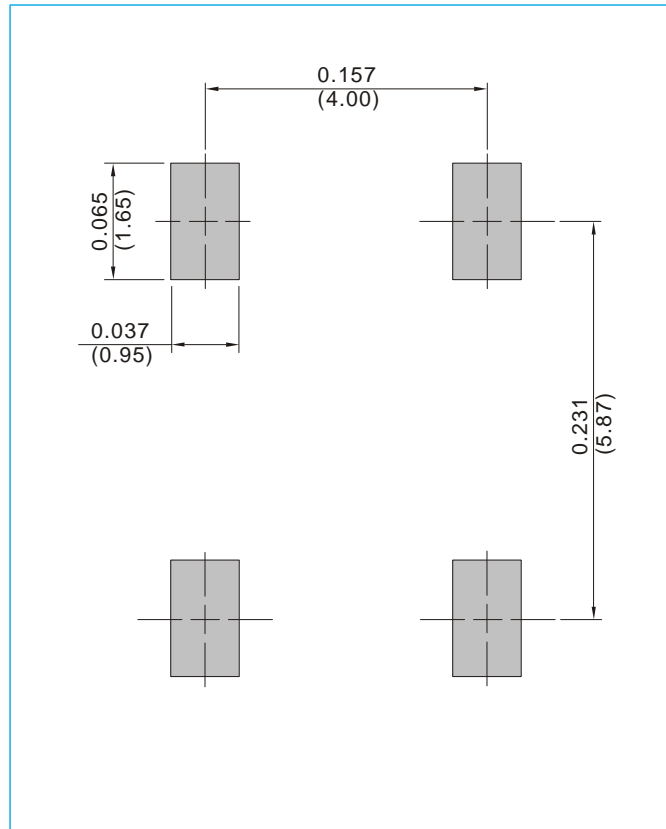


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## MOUNTING PAD LAYOUT

### MICRO DIP / TDI

Unit : inch(mm)



## ORDER INFORMATION

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



# TS140S

## Part No\_packing code\_Version

TS140S\_R1\_00001

TS140S\_R2\_00001

For example :

**RB500V-40\_R2\_00001**

Part No.

Serial number

Version code means HF

Packing size code means 13"

Packing type means T/R

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)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	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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