



# TS340IS

## MICRO SURFACE MOUNT SCHOTTKY BRIDGE

**VOLTAGE** 40 Volt **CURRENT** 3 Ampere

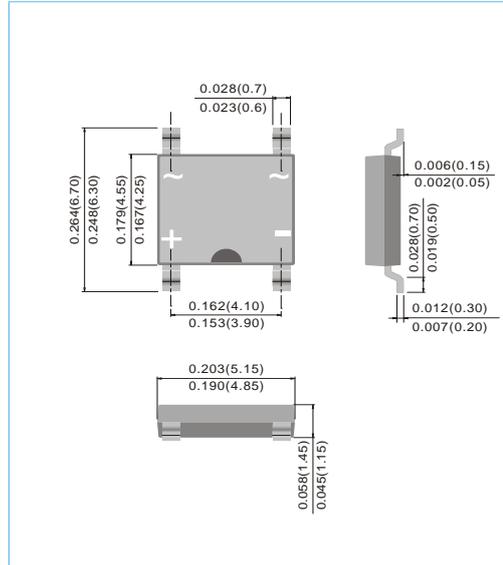
**MICRO DIP / TDI** Unit : inch(mm)

### 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.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

### MECHANICAL DATA

- Case: TDI Molded plastic
- Terminals: Lead solderable per MIL-STD-750, Method 2026
- Polarity: As marked.
- Weight: 0.003 ounces, 0.09 grams.
- Marking: Part number



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

PARAMETER	SYMBOL	VALUE	UNITS
Maximum Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	40	V
Maximum RMS Reverse Voltage	V <sub>RMS</sub>	28	V
Maximum DC Blocking Voltage	V <sub>R</sub>	40	V
Maximum Average Forward Current	I <sub>F(AV)</sub>	3	A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load per diode	I <sub>FSM</sub>	60	A
Typical Thermal Resistance	(Note 2) R <sub>θJA</sub> (Note 1) R <sub>θJC</sub>	145 27	°C/W
Operating Junction Temperature Range	T <sub>J</sub>	-55 to +150	°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150	°C

#### NOTES :

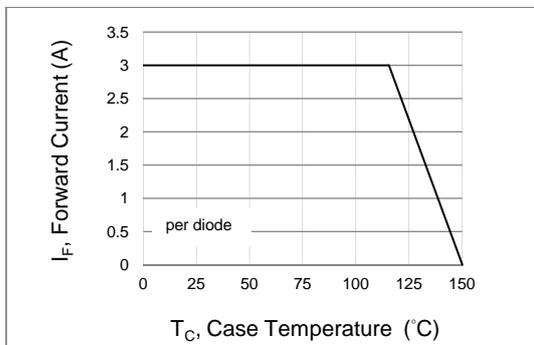
1. Mounted on a FR4 PCB, single-sided copper, with 100cm<sup>2</sup> copper pad area.
2. Mounted on a FR4 PCB, single-sided copper, mini pad.



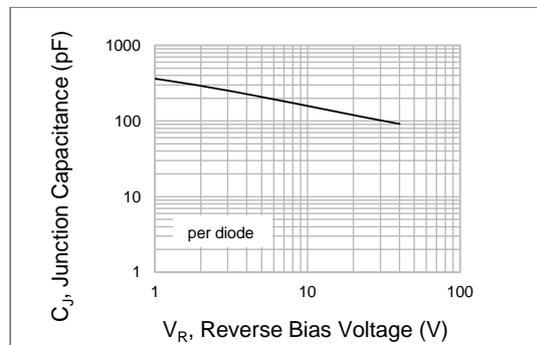
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## ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C unless otherwise noted)

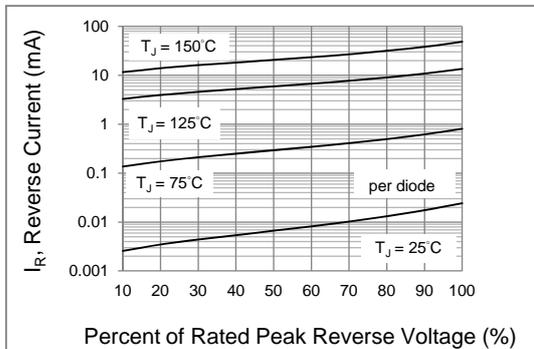
PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Breakdown voltage per diode	V <sub>BR</sub>	I <sub>R</sub> =0.5mA	40	-	-	V
Instantaneous forward voltage per diode	V <sub>F</sub>	I <sub>F</sub> =3A      T <sub>A</sub> =25°C	-	0.5	0.53	V
		I <sub>F</sub> =3A      T <sub>A</sub> =125°C	-	0.44	-	V
Reverse current per diode	I <sub>R</sub>	V <sub>R</sub> =28V	-	10	-	μA
		V <sub>R</sub> =40V	T <sub>A</sub> =25°C T <sub>A</sub> =100°C	- -	- 15	100 -



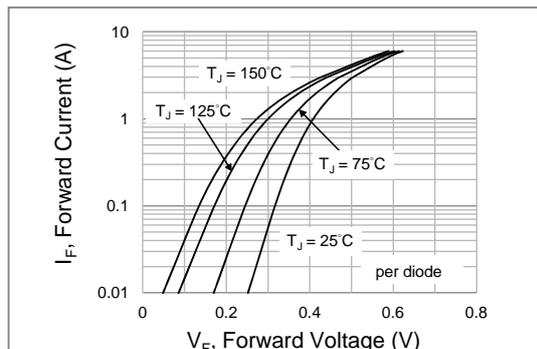
**Fig.1 Forward Current Derating Curve**



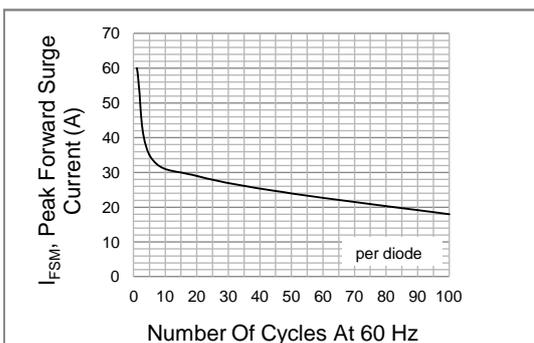
**Fig.2 Typical Junction Capacitance**



**Fig.3 Typical Reverse Characteristics**



**Fig.4 Typical Forward Characteristics**



**Fig.5 Maximum Non-Repetitive Peak Forward Surge Current Uni-Directional Use Only**

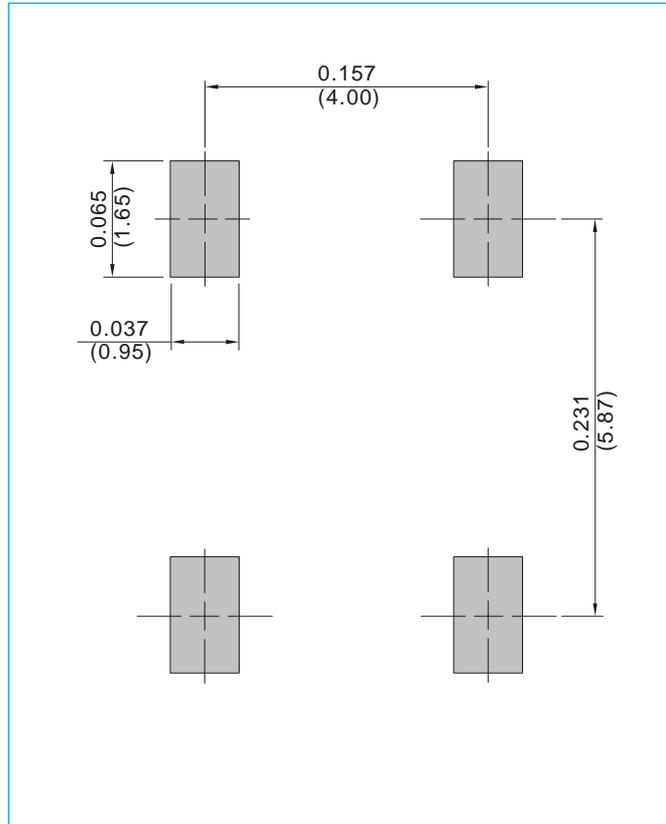


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## MOUNTING PAD LAYOUT

### MICRO DIP / TDI

Unit : inch(mm)



## ORDER INFORMATION

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



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## Part No\_packing code\_Version

TS340IS\_R1\_00001

TS340IS\_R2\_00001

For example :

**RB500V-40\_R2\_00001**



Packing Code <b>XX</b>				Version Code <b>XXXXXX</b>		
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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