

# TS360ILS

## MICRO SURFACE MOUNT SCHOTTKY BRIDGE

**VOLTAGE** 60 Volt **CURRENT** 3 Ampere

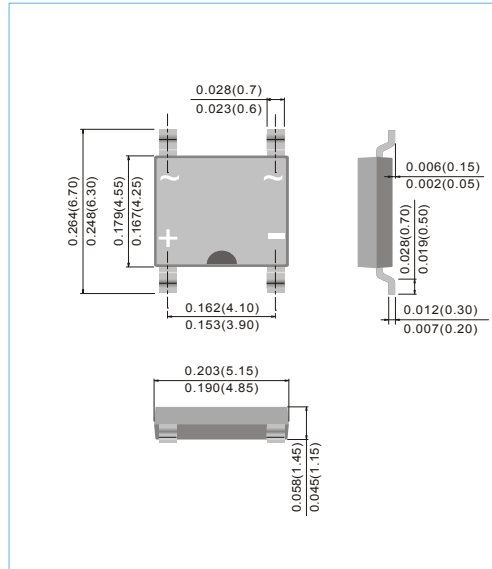
**MICRO DIP / TDI** Unit : inch(mm)

### : 95H F9G

- 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 RoHS2.0 (2011/65/EU & 2015/865/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>	60	V
Maximum RMS Reverse Voltage	V <sub>RMS</sub>	48	V
Maximum DC Blocking Voltage	V <sub>R</sub>	60	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>	145	°C/W
(Note 1)	R <sub>θJC</sub>	38	
Operating Junction Temperature Range	T <sub>J</sub>	-55 to +150	°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150	°C

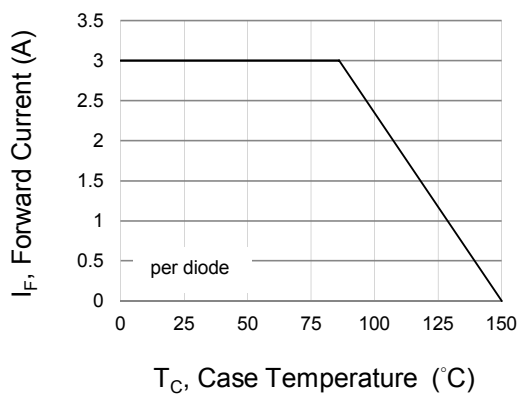
### NOTES :

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.

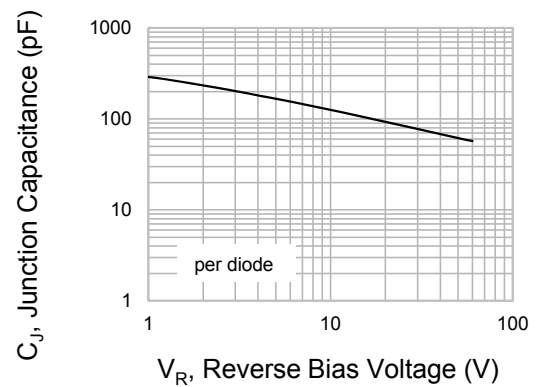
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## ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C unless otherwise noted)

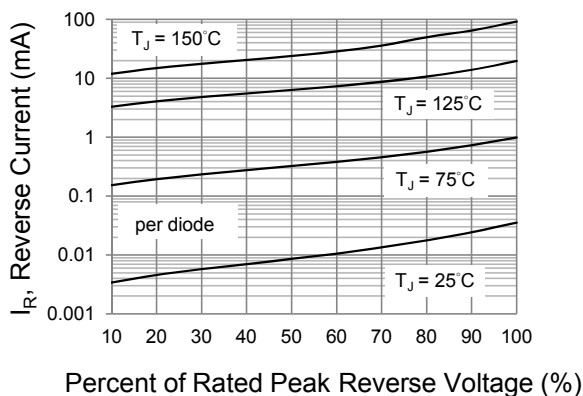
PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Instantaneous forward voltage per diode	V <sub>F</sub>	I <sub>F</sub> =3A T <sub>J</sub> =25°C	-	0.62	0.66	V
		I <sub>F</sub> =3A T <sub>J</sub> =125°C	-	0.59	-	V
Reverse current per diode	I <sub>R</sub>	V <sub>R</sub> =48V T <sub>J</sub> =25°C	-	20	-	μA
		V <sub>R</sub> =60V T <sub>J</sub> =25°C T <sub>J</sub> =125°C	- -	- 20	65 -	μA mA



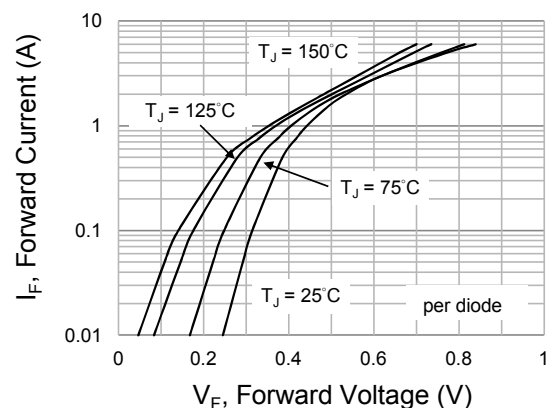
**Fig.1 Forward Current Derating Curve**



**Fig.1 Typical Junction Capacitance**



**Fig.2 Typical Reverse Characteristics**



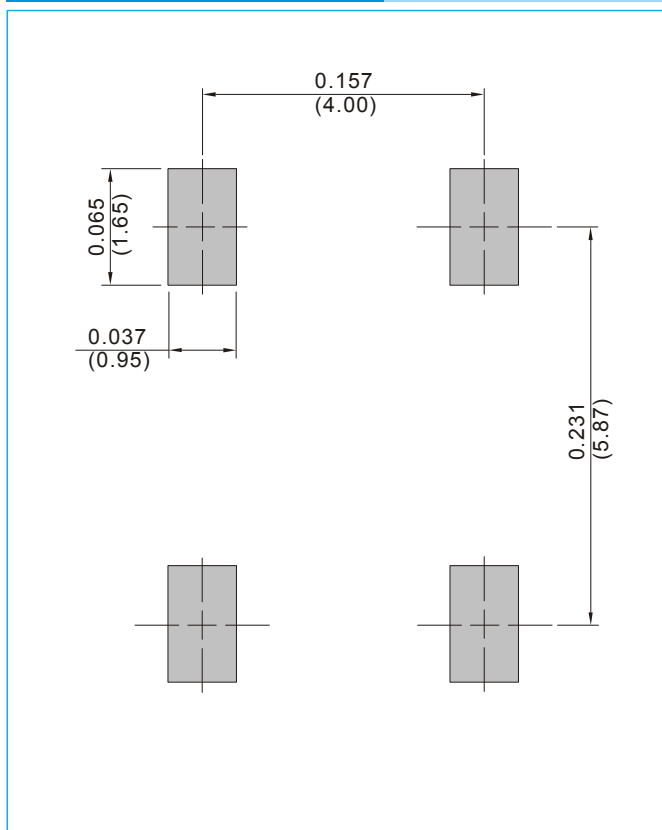
**Fig.3 Typical Forward Characteristics**

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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

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## Part No\_packing code\_Version

TS360ILS\_R1\_00001

TS360ILS\_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 <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)	<b>A</b>	N/A	<b>0</b>	HF	<b>0</b>	serial number
Tape and Reel (T/R)	<b>R</b>	7"	<b>1</b>	RoHS	<b>1</b>	serial number
Bulk Packing (B/P)	<b>B</b>	13"	<b>2</b>			
Tube Packing (T/P)	<b>T</b>	26mm	<b>X</b>			
Tape and Reel (Right Oriented) (TRR)	<b>S</b>	52mm	<b>Y</b>			
Tape and Reel (Left Oriented) (TRL)	<b>L</b>	PANASERT T/B CATHODE UP (PBCU)	<b>U</b>			
FORMING	<b>F</b>	PANASERT T/B CATHODE DOWN (PBCD)	<b>D</b>			



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