



TSM340IS

MICRO SURFACE MOUNT SCHOTTKY BRIDGE

VOLTAGE 40 Volt **CURRENT** 3 Ampere

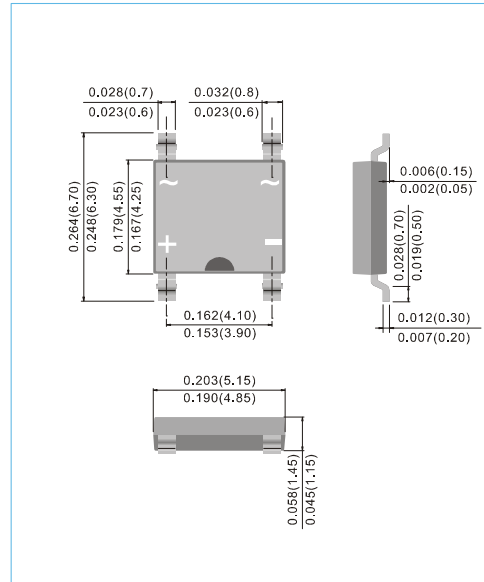
MICRO DIP / TDI Unit : inch(mm)

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.
- 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_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNITS
Maximum Peak Repetitive Reverse Voltage	V _{RRM}	40	V
Maximum RMS Reverse Voltage	V _{RMS}	28	V
Maximum DC Blocking Voltage	V _R	40	V
Maximum Average Forward Current	I _{F(AV)}	3	A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load per diode	I _{FSM}	60	A
Typical Thermal Resistance	(Note 2) R _{θJA} (Note 1) R _{θJC}	145 32	°C/W
Operating Junction Temperature Range	T _J	-55 to +150	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

NOTES :

1. Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area.
2. Mounted on a FR4 PCB, single-sided copper, mini pad.



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ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Breakdown voltage per diode	V _{BR}	I _R =0.5mA T _A =25°C	40	-	-	V
Instantaneous forward voltage per diode	V _F	I _F =3A T _A =25°C	-	0.53	0.56	V
Reverse current per diode	I _R	V _R =28V T _A =25°C	-	50	-	μA
		V _R =40V T _A =25°C T _A =125°C	- -	- 5	140 -	μA mA

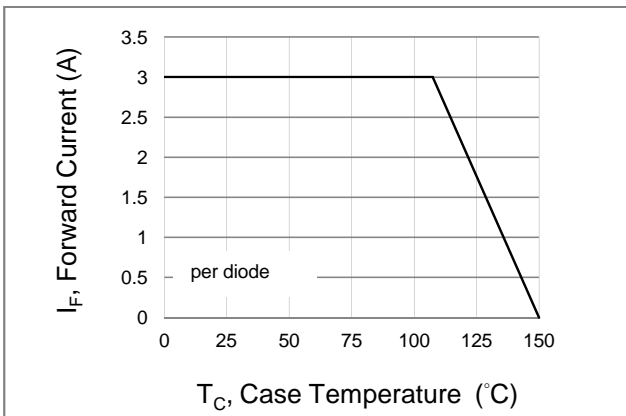


Fig.1 Forward Current Derating Curve

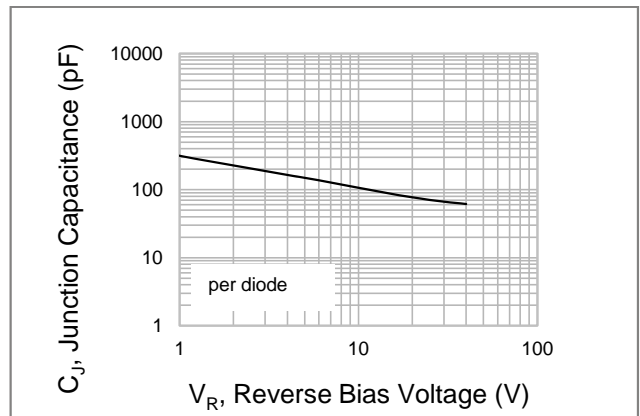


Fig.2 Typical Junction Capacitance

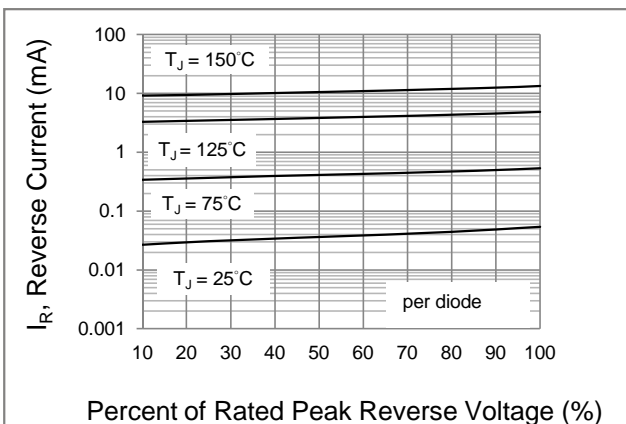


Fig.3 Typical Reverse Characteristics

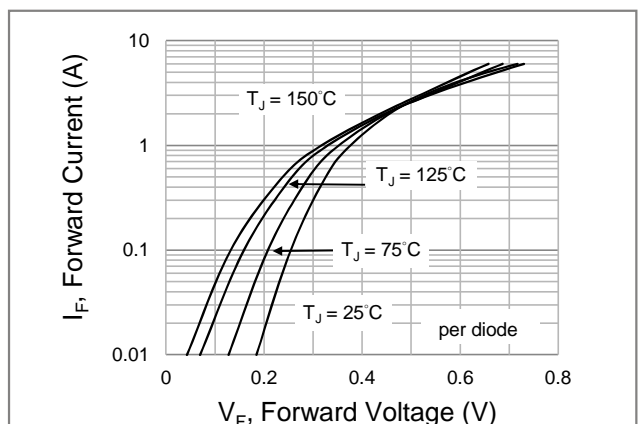


Fig.4 Typical Forward Characteristics

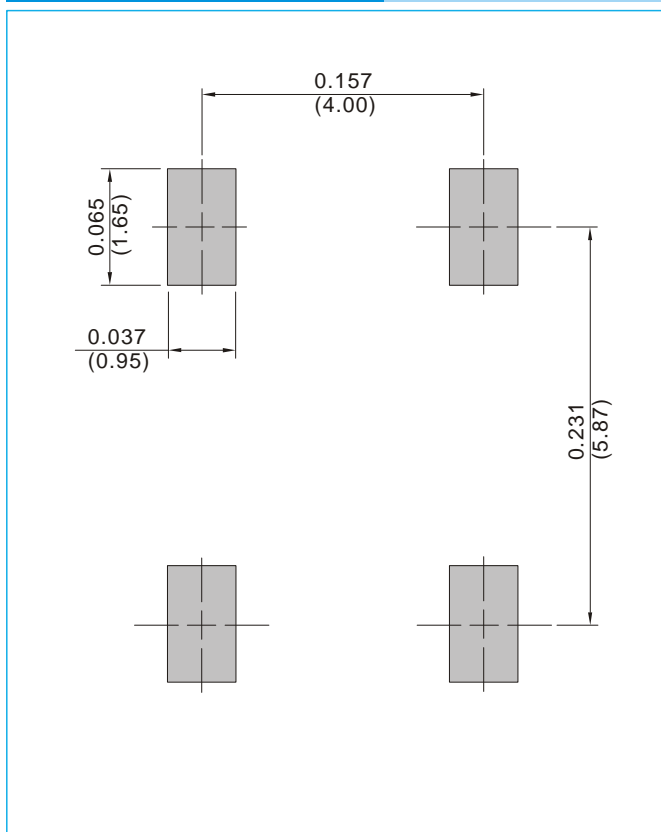


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MOUNTING PAD LAYOUT

MICRO DIP / TDI

Unit : inch(mm)



ORDER INFORMATION

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



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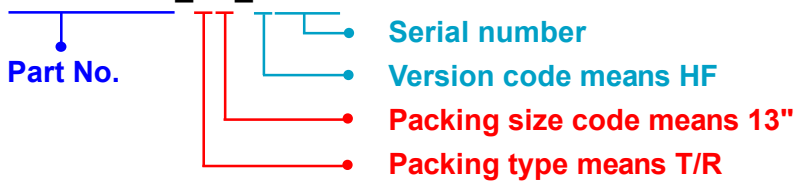
Part No_packing code_Version

TSM340IS_R1_00001

TSM340IS_R2_00001

For example :

RB500V-40_R2_00001



Packing Code XX				Version Code XXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th 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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