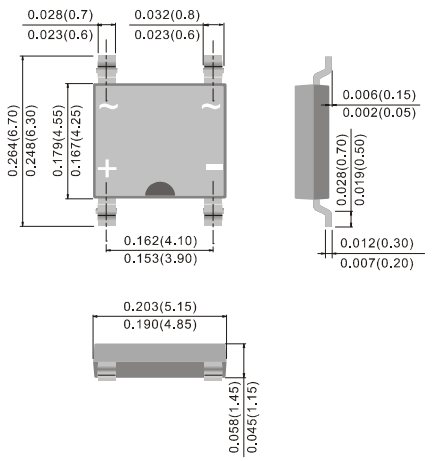
TS340IS

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_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNITS
Maximum Peak Repetitve 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) (Note 1)	$R_{\theta JA}$ $R_{\theta JC}$	145 27	°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 100cm^2 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		40	-	-	V
Instantaneous forward voltage per diode	V_F	I_F=3A	T_A=25°C	-	0.5	0.53	V
		I_F=3A	T_A=125°C	-	0.44	-	V
Reverse current per diode	I_R	V_R=28V		-	10	-	μA
		V_R=40V	T_A=25°C T_A=100°C	- -	- 15	100 -	μA mA

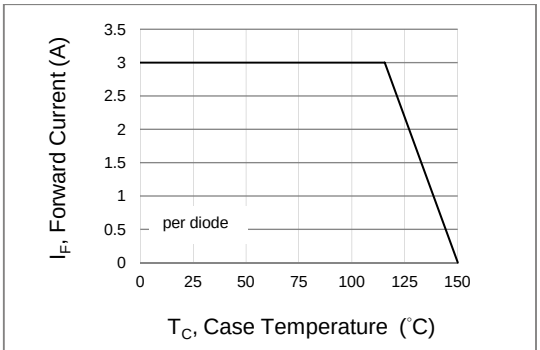

Fig.1 Forward Current Derating Curve

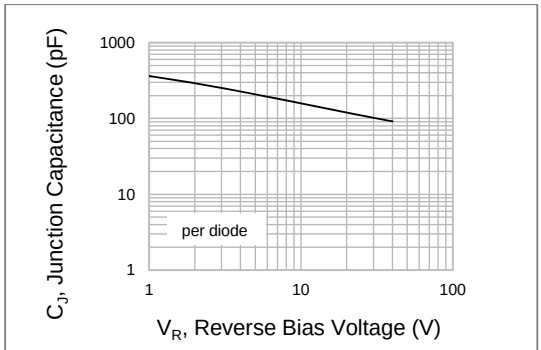

Fig.2 Typical Junction Capacitance

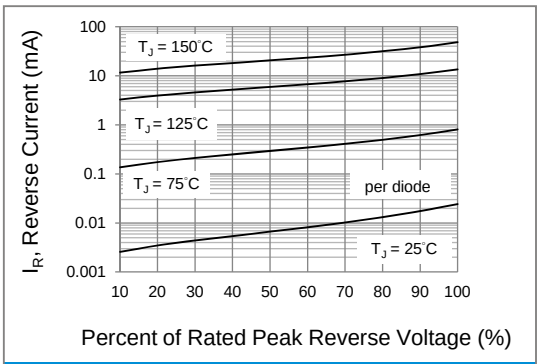

Fig.3 Typical Reverse Characteristics

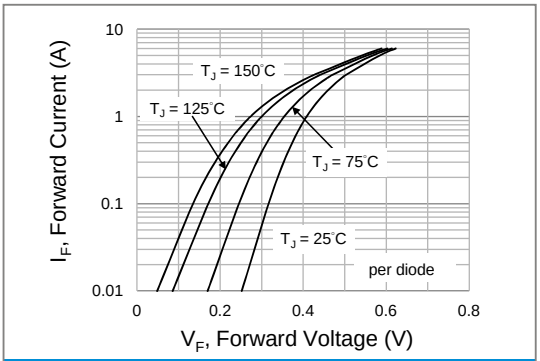

Fig.4 Typical Forward Characteristics

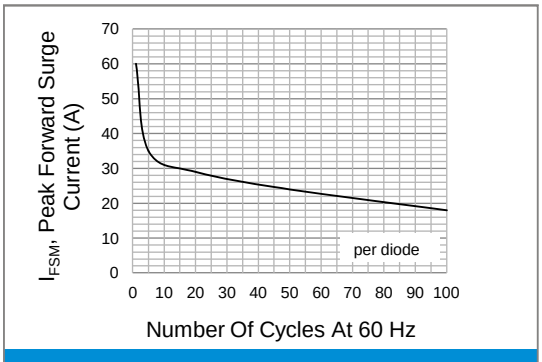

Fig.5 Maximum Non-Repetitive Peak Forward Surge Current Uni-Directional Use Only

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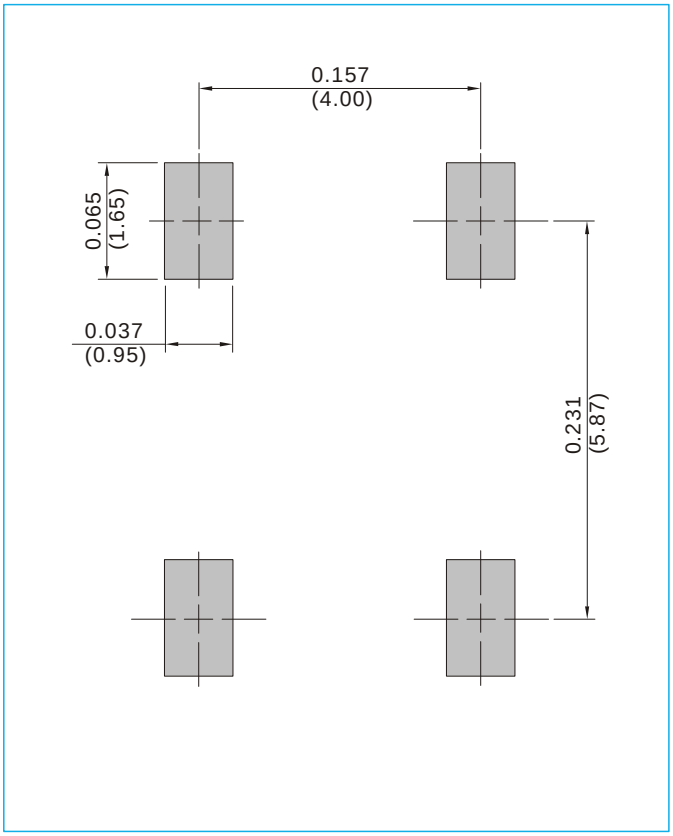
MOUNTING PAD LAYOUT

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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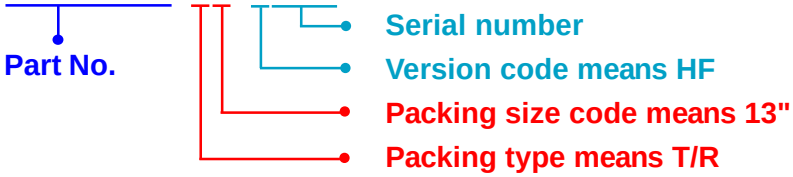
Part No_packing code_Version

TS340IS_R1_00001

TS340IS_R2_00001

For example :

RB500V-40_R2_00001



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