

TS140S

MICRO SURFACE MOUNT SCHOTTKY BRIDGE

VOLTAGE 40 Volt **CURRENT** 1 Ampere

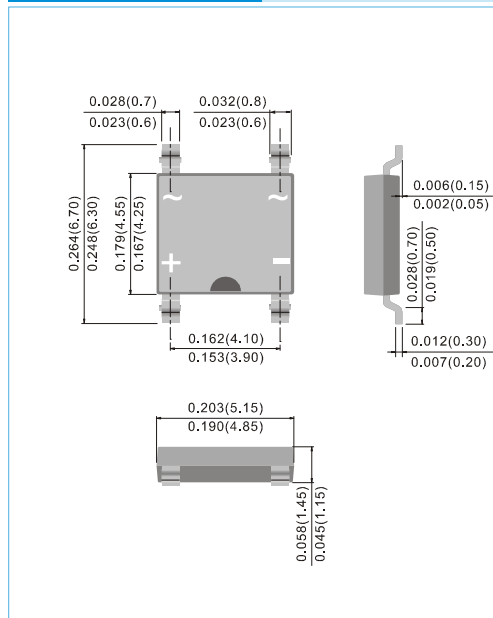
MICRO DIP / TDI Unit : inch(mm)

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_A=25°C unless otherwise noted)

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

NOTES:

1. Mounted on minimum pad layout .
2. Mounted on 48cm² PCB board.

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ELECTRICAL CHARACTERISTICS ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	Test Condition	MIN.	TYP.	MAX.	UNITS
Reverse Breakdown Voltage	$V_{(BR)}$	$I_R=0.1\text{mA}$	40	--	--	V
Reverse Current	I_R	$V_R=40\text{V}$	--	--	100	μA
Forward Voltage	V_F	$I_F=0.7\text{A}$ $I_F=1.0\text{A}$	--	0.43 0.46	-- 0.5	V
Typical Junction Capacitance	C_J	$V_R=0\text{V}$, $f=1.0\text{MHz}$	--	255	--	pF

RATING AND CHARACTERISTIC CURVES

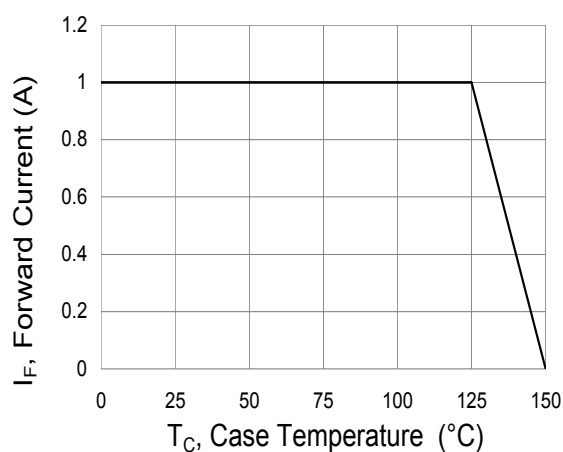


Fig.1 Forward Current Derating Curve

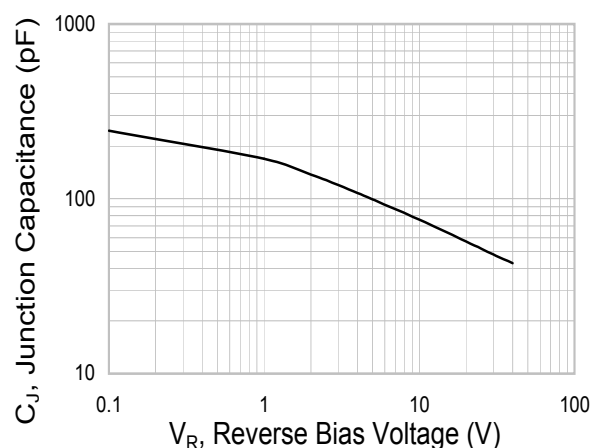


Fig.2 Typical Junction Capacitance

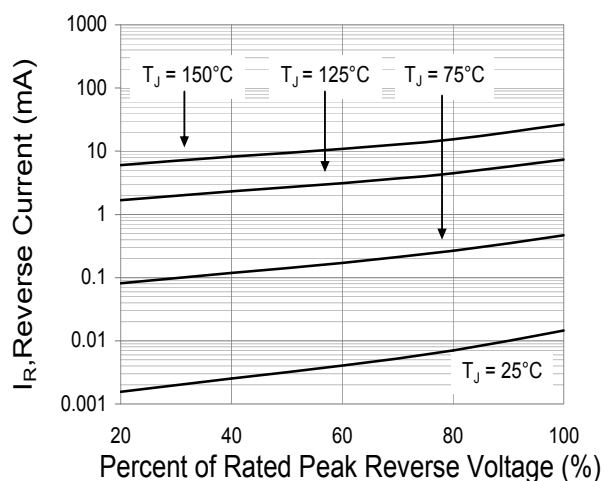


Fig.3 Typical Reverse Characteristics

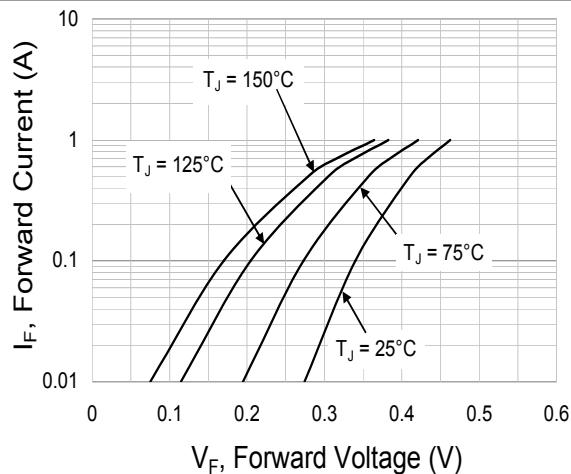


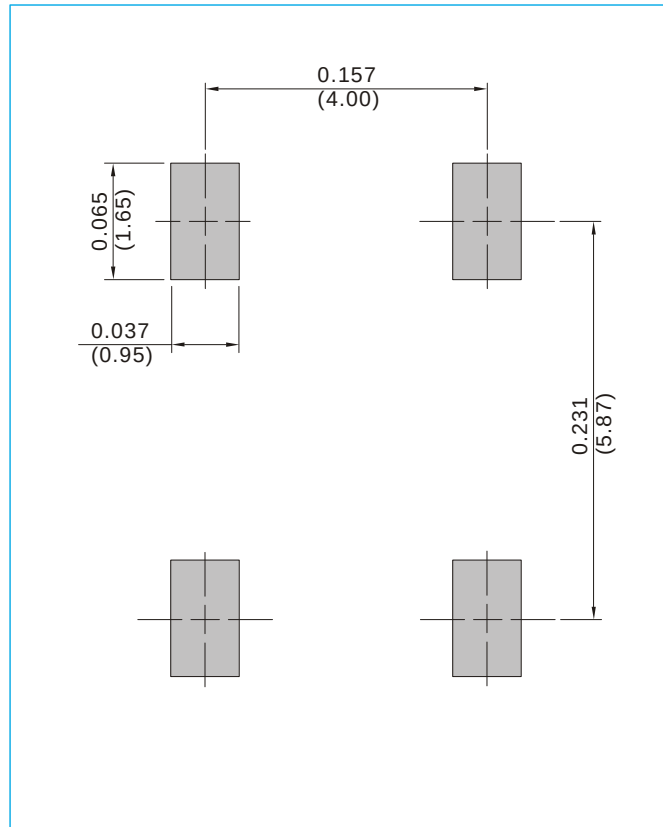
Fig.4 Typical Forward Characteristics

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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

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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 XXXXXX		
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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