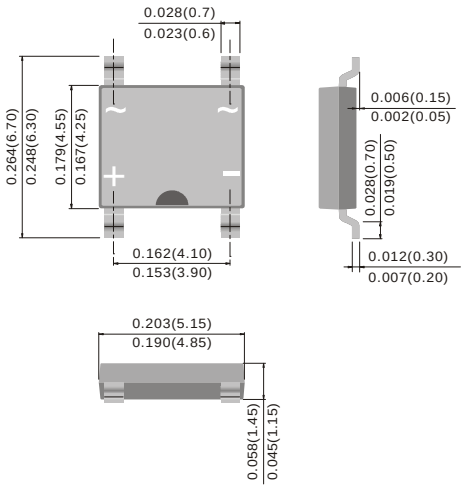
TS240S

MICRO SURFACE MOUNT SCHOTTKY BRIDGE

VOLTAGE 40 Volts **CURRENT** 2 Amperes

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 comply with EU RoHS 2011/65/EU directives.
- 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.
- Standard packaging: Any
- Weight: 0.003 ounces, 0.090 grams.

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	$I_{F(AV)}$	2	A
Non-Repetitive Peak Surge Current (Surge applied at rate Load conditions halfware, single phase, 60Hz)	I_{FSM}	50	A
Typical Thermal Resistance, Junction to Ambient (Note1)	$R_{\Theta JA}$	145	°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 an FR4 PCB, single-sided copper, mini pad.

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

PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX.	UNIT
Reverse Breakdown Voltage	V_{BR}	I_R=150μA	40	-	-	V
Forward Voltage	V_F	If=2A	-	-	0.5	V
Reverse Current	I_R	V_R=40V	-	-	50	μA

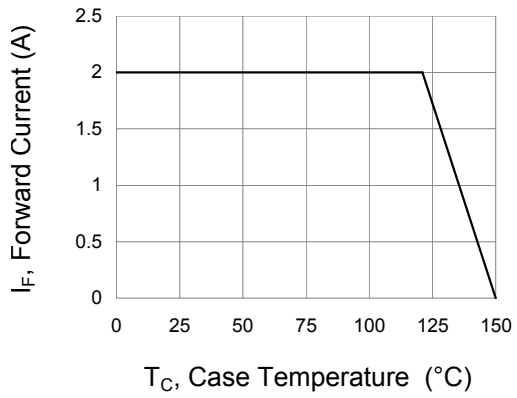


Fig.1 Forward Current Derating Curve

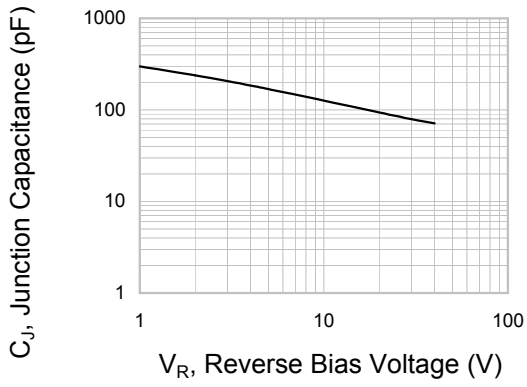


Fig.2 Typical Junction Capacitance

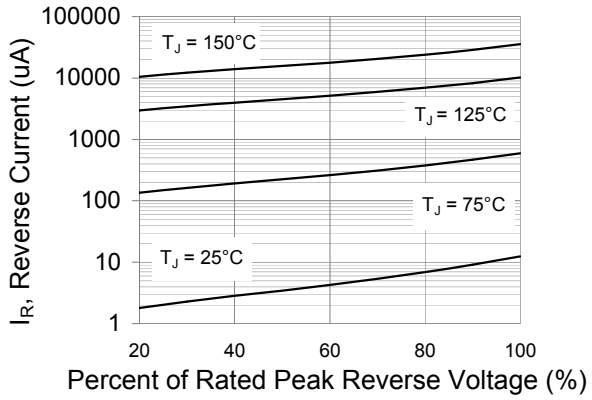


Fig.3 Typical Reverse Characteristics

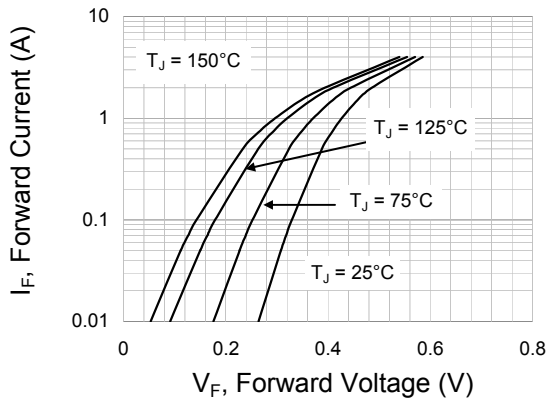
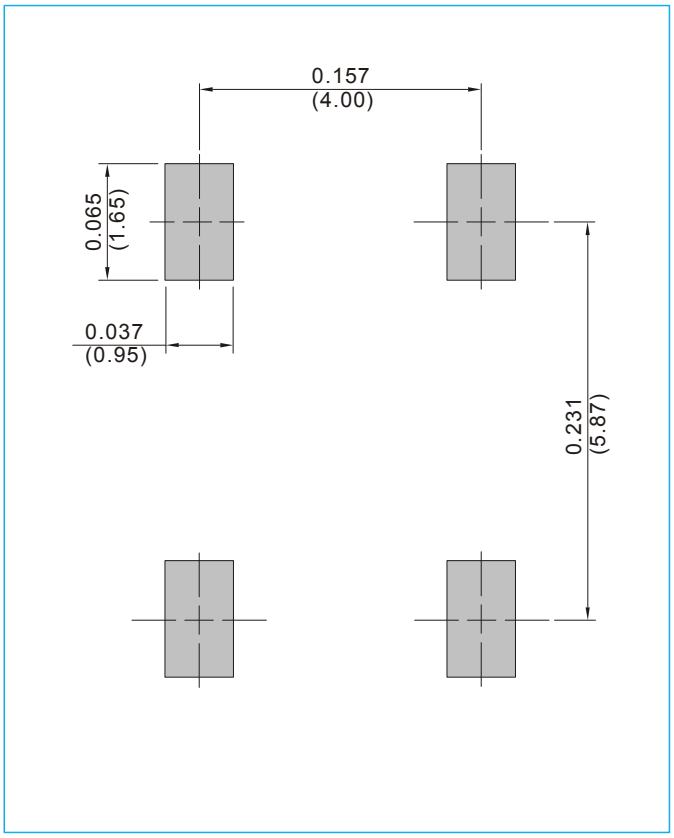


Fig.4 Typical Forward Characteristics

TS240S

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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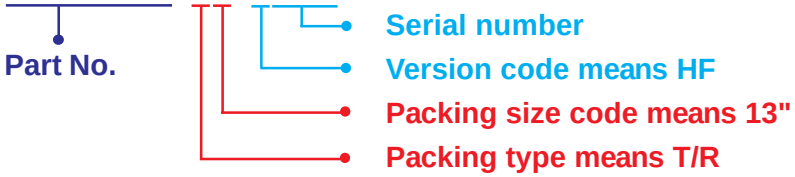
Part No_packing code_Version

TS240S_R1_00001

TS240S_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			

TS240S

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