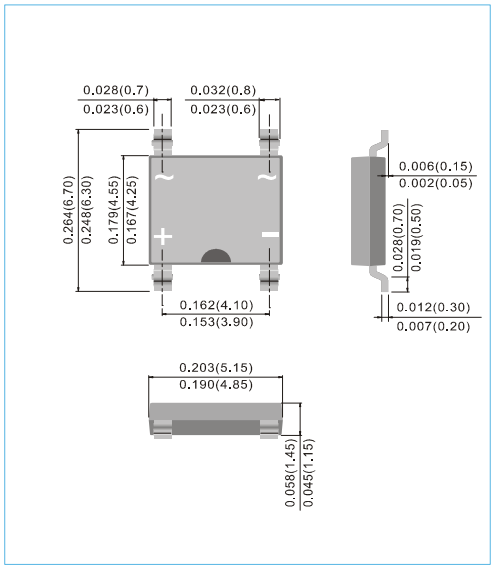
PANJIT SEMI CONDUCTOR

TS260S

MICRO SURFACE MOUNT SCHOTTKY BRIDGE

VOLTAGE 60 Volt **CURRENT** 2 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: Micro Dip Molded plastic
- Terminals: Lead solderable per MIL-STD-750, Method 2026
- Polarity: As marked.
- Standard packaging: Any
- Weight: 0.003 ounce, 0.09 gram

ABSOLUTE MAXIMUM RATINGS (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	60	V
Maximum RMS Voltage	V_{RMS}	42	V
Maximum DC Blocking Voltage	V_R	60	V
Maximum Average Forward Current	I_O	2	A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	50	A
Typical Thermal Resistance, Junction to Ambient (Note 2) Junction to Case (Note 1)	$R_{\theta JA}$ $R_{\theta JL}$	210 33	°C/W
Operating Junction Temperature and Storage Temperature Range	T_J,T_{STG}	-55 to +150	°C

NOTES : 1.Semi-infinite heatsink.
2.Minimum pad for each lead on board.

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

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage	V_{BR}	I_R=150μA	T_A=25°C	60	-	-	V
Instantaneous forward voltage	V_F	I_F=0.5A I_F=1A I_F=2A	T_A=25°C	- - -	0.43 0.50 0.63	- - 0.7	V
		I_F=0.5A I_F=1A I_F=2A	T_A=125°C	- - -	0.34 0.45 0.57	- - -	V
Reverse current	I_R	V_R=48V	T_A=25°C	-	5	-	μA
		V_R=60V	T_A=25°C T_A=125°C	- -	- 7	50 -	μA mA
Junction capacitance	C_J	V_R=4V,f=1MHz		-	-	140	pF

RATING AND CHARACTERISTIC CURVES

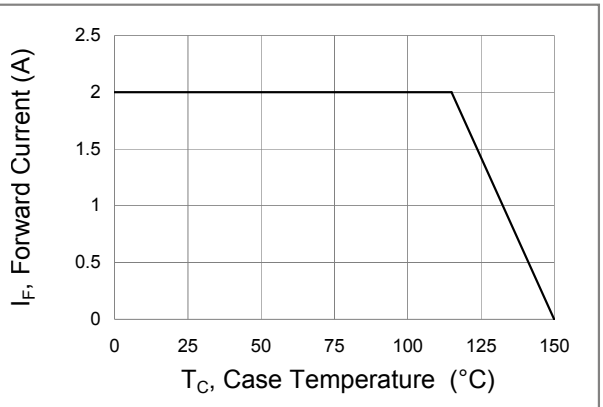

Fig.1 Forward Current Derating Curve

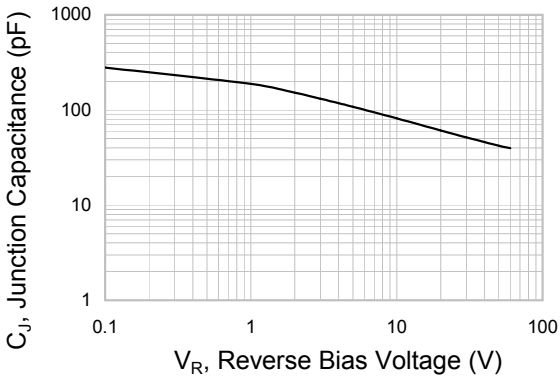

Fig.2 Typical Junction Capacitance

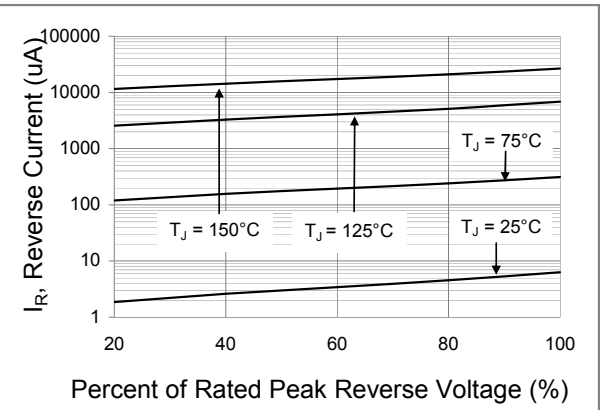

Fig.3 Typical Reverse Characteristics

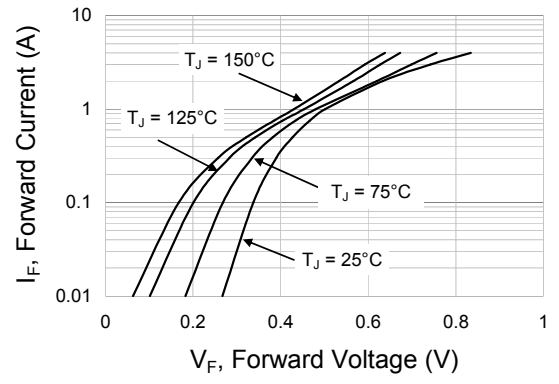

Fig.4 Typical Forward Characteristics

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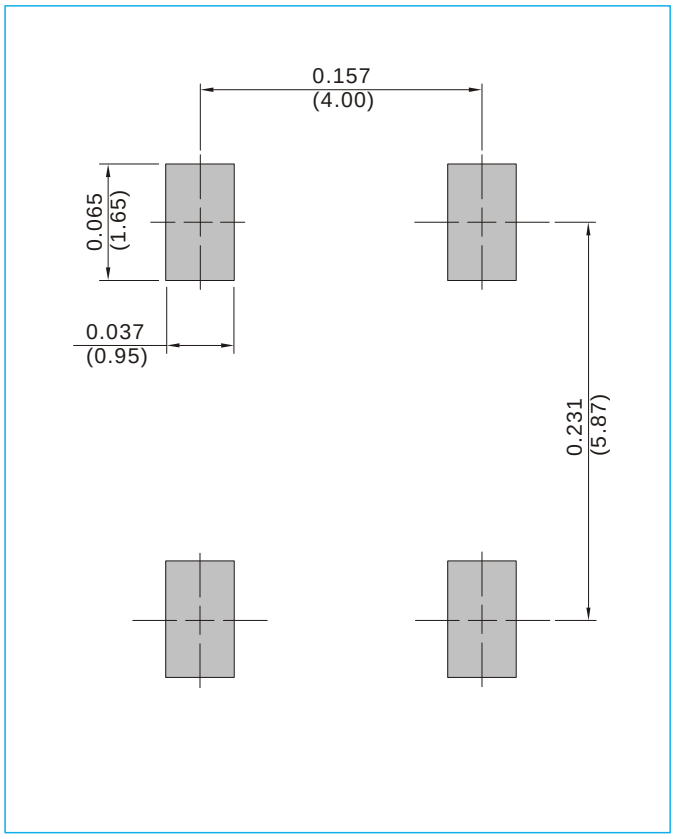
MOUNTING PAD LAYOUT

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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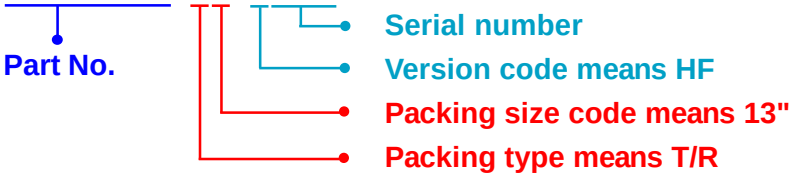
Part No_packing code_Version

TS260S_R1_00001

TS260S_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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