PANJIT SEMI CONDUCTOR

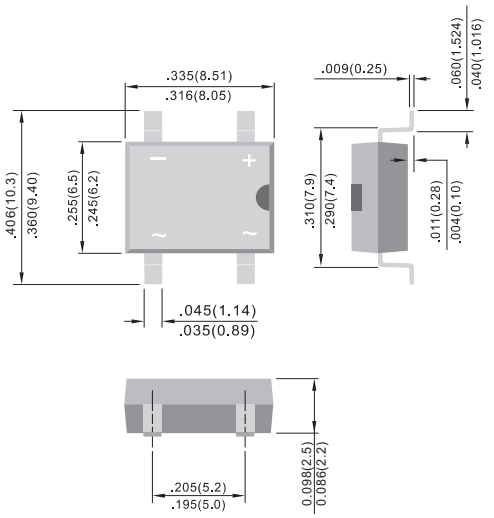
DI150S~DI1510S

SURFACE MOUNT GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

VOLTAGE 50 to 1000 Volts **CURRENT** 1.5 Amperes

Recongnized File #E111753

SDIP Unit : inch (mm)



FEATURES

- Plastic material used carries Underwriters Laboratory recognition 94V-O
- Low leakage
- Surge overload rating-- 50 amperes peak
- Ideal for printed circuit board
- Exceeds environmental standards of MIL-S-19500/228
- Lead free in comply with EU RoHS 2002/95/EC directives

MECHANICAL DATA

Case: Reliable low cost construction utilizing molded plastic technique results in inexpensive product

Terminals: Lead solderable per MIL-STD-750, Method 2026

Polarity: Polarity symbols molded or marking on body

Mounting Position: Any

Weight: 0.0105 ounce, 0.3 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.Single phase, half wave, 60Hz, Resistive or inductive load.
For capacitive load, derate current by 20%

PARAMETER	SYMBOL	DI150S	DI151S	DI152S	DI154S	DI156S	DI158S	DI1510S	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Current TA=40°C	I_{AV}	1.5							A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	50							A
I^2t Rating for fusing (t<8.35ms)	I^2t	10							A^2t
Maximum Forward Voltage Drop per Bridge Element at 1.0A	V_F	1.1							V
Maximum DC Reverse Current T_J=25 °C at Rated DC Blocking VoltageT_J=125 °C	I_R	5.0 500							μA
Typical Junction capacitance (Note 1)	C_J	25							pF
Typical thermal resistance per leg ((Note 2)	$R\theta_{JA}$ $R\theta_{JL}$	40 15							°C / W
Operating and Storage Temperature Range	T_J	-50 to + 125							°C
Storage Temperature Range	TA	-50 to + 150							°C

NOTES:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts
2. Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.5 X 0.5"(13 X 13mm) copper pads

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RATING AND CHARACTERISTIC CURVES

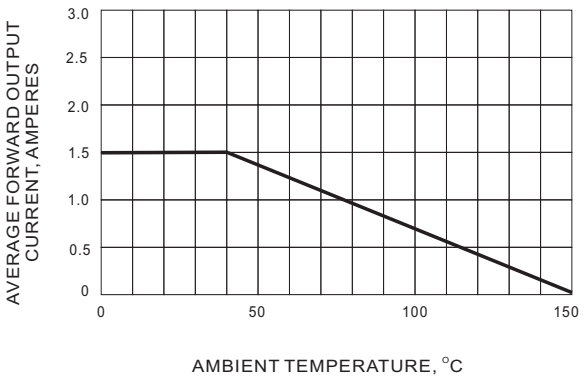

FIG.1 DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

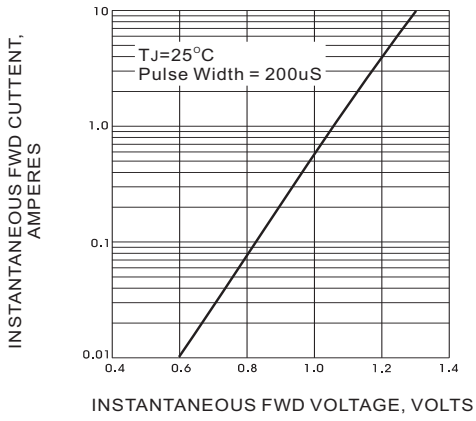

FIG.2 TYPICAL FORWARD CHARACTERISTICS

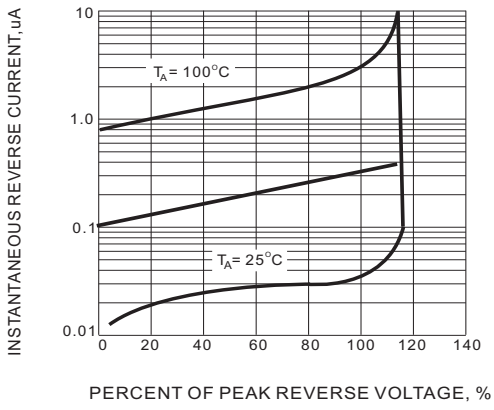

FIG.3 TYPICAL REVERSE CHARACTERISTICS

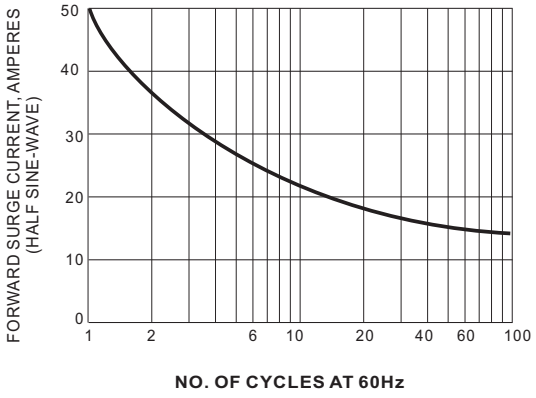

FIG.4 MAX NON-REPETITIVE SURGE CURRENT

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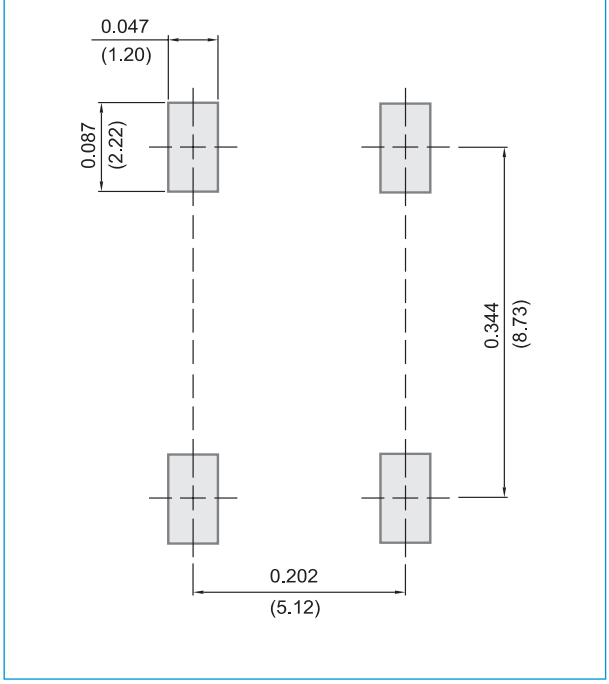
MOUNTING PAD LAYOUT

SDIP Unit: inch (mm)



ORDER INFORMATION

- Packing information

  T/R - 1.5K per 13" plastic Reel

LEGAL STATEMENT

DI150S~DI1510S

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
T/B	A	N/A	0	HF	0	serial number
T/R	R	7"	1	RoHS	1	serial number
B/P	B	13"	2			
T/P	T	26mm	X			
TRR	S	52mm	Y			
TRL	L	PBCU	U			
FORMING	F	PBCD	D			

Part No_packing code_Version

DI150S_R2_00001
DI150S_R2_10001
DI150S_T0_00001
DI150S_T0_10001