

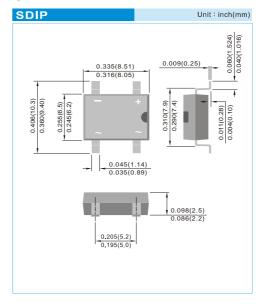
SURFACE MOUNT GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

VOLTAGE 50 to 1000 Volt CURRENT 1.5 Ampere

Recongnized File #E111753

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 compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)



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

Weight: 0.0105 ounce, 0.3 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C 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	VRRM	50	100	200	400	600	800	1000	٧
Maximum RMS Bridge Input Voltage	VRMS	35	70	140	280	420	560	700	٧
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	٧
Maximum Average Forward Current T _A =40°C	lav	1.5					Α		
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	IFSM	sm 50			Α				
I ² t Rating for fusing (t<8.35ms)		10					A²t		
Maximum Forward Voltage Drop per Bridge Element at 1A	VF	1.1						٧	
Maximum DC Reverse Current at Rated DC Blocking T _J =25°C Voltage T _J =125°C	l _R	5 500					μΑ		
Typical Junction Capacitance (Note 1)	Сл	25				pF			
Typical Thermal Resistance per leg (Note 2)	R _{⊕JA} R _{⊕JL}	40 15			°C / W				
Operating and Storage Temperature Range	TJ,TSTG	-55 to + 150			°C				

NOTES:

- 1. Measured at 1 MHz and applied reverse voltage of 4 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



RATING AND CHARACTERISTIC CURVES

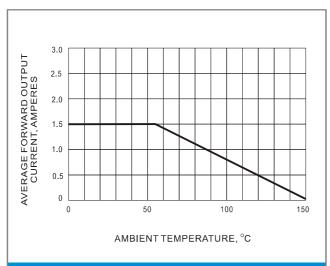


FIG.1 DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

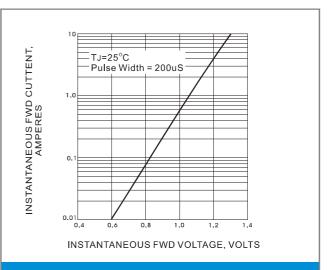


FIG.2 TYPICAL FORWARD CHARACTERISTICS

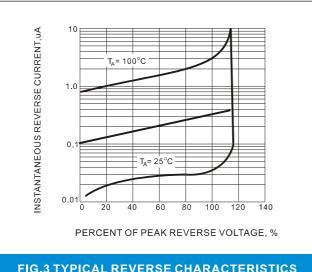


FIG.3 TYPICAL REVERSE CHARACTERISTICS

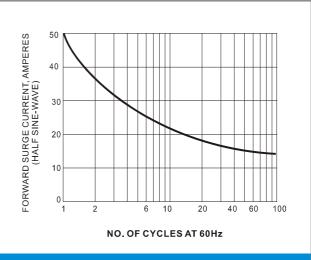


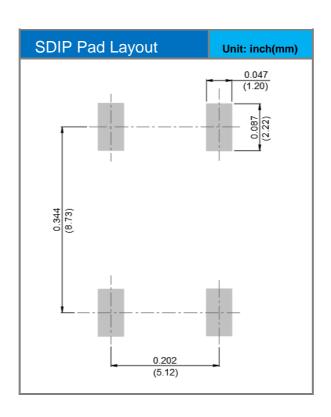
FIG.4 MAX NON-REPETITIVE SURGE CURRENT



Product and Packing Information

Part No.	Package Type	Packing Type	Marking
DI150S	SDIP	1.5K pcs / 13" reel	DI150S
DI151S	SDIP	1.5K pcs / 13" reel	DI151S
DI152S	SDIP	1.5K pcs / 13" reel	DI152S
DI154S	SDIP	1.5K pcs / 13" reel	DI154S
DI156S	SDIP	1.5K pcs / 13" reel	DI156S
DI158S	SDIP	1.5K pcs / 13" reel	DI158S
DI1510S	SDIP	1.5K pcs / 13" reel	DI1510S

Mounting Pad Layout





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