

#### DUAL-IN-LINE GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER VOLTAGE 50 to 1000 Volts CURRENT 1.5 Amperes DIP Unit : inch (mm) EN Recongnized File #E111753 **FEATURES** .335(8.51) .316(8.05) • Plastic material used carries Underwriters Laboratory recognition 94V-O · Low leakage 255(6.5) 245(6.2) 315(8.00) 285(7.24) 350(8.9) 300(7.6) 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 2011/65/EU directives • Green molding compound as per IEC61249 Std. . (Halogen Free) **MECHANICALDATA** .045(1.14) .035(0.89) Case: Reliable low cost construction utilizing molded plastic technique results in .022(0.56) inexpensive product .018(0.46) • Terminals: Lead solderable per MIL-STD-750, Method 2026 185(4.69) 150(3.81) · Polarity: Polarity symbols molded or marking on body .075(1.90) .205(5.2) Mounting Position: Any .055(1.39) • Weight: 0.02 ounce, 0.4 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	D1150	DI151	DI152	D1154	D1156	D1158	DI1510	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Current T <sub>A</sub> =40°C	I <sub>F(AV)</sub>	1.5							А
Peak Forward Surge Current : 8.3ms single half sine- wave superimposed on rated load (JEDEC method)	I <sub>fsm</sub>	50							А
I²t Rating for fusing ( t<8.35ms)	l² t	10							A²t
Maximum Forward Voltage Drop per Bridge Element at 1.0A	V <sub>F</sub>	1.1							V
Maximum DC Reverse Current T <sub>j</sub> =25 °C at Rated DC Blocking VoltageT <sub>j</sub> =125 °C	I <sub>R</sub>	5.0 500							uA
Typical Junction capacitance (Note 1)	C	25							рF
Typical thermal resistance per leg ((Note 2)	R <sub>eja</sub> R <sub>ejl</sub>	40 15							°C / W
Operating and Storage Temperature Range	TJ	-55 to + 125							۰C
Storage Temperature Range	T <sub>STG</sub>	-55 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



#### **RATING AND CHARACTERISTIC CURVES**







Part No\_packing code\_Version

DI150\_T0\_00001

#### For example :

#### RB500V-40\_R2\_00001



Packing Code XX					Version Code XXXXX				
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code			
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number			
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number			
Bulk Packing (B/P)	В	13"	2						
Tube Packing (T/P)	т	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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