

M19500/469-01, M19500/469-02 M19500/469-03

SINGLE PHASE BRIDGE

TECHNICAL DATA DATA SHEET 656, REV. A

AVAILABLE AS JANTX, JANTXV

SINGLE PHASE FULL WAVE BRIDGE RECTIFIER

Qualified per MIL-PRF-19500/469

DESCRIPTION:

This high power single phase full wave bridge series is military qualified per MIL-PRF-19500/469 and is targeted for space, commercial and military aircraft, military vehicles, shipboard markets and all high reliability applications.

√ FEATURES / BENEFITS

- ✓ Constructed with hermetic diodes
- ✓ All devices are 100% hot solder dipped
- ✓ JANTX/JANTXV available per MIL-PRF-19500/469

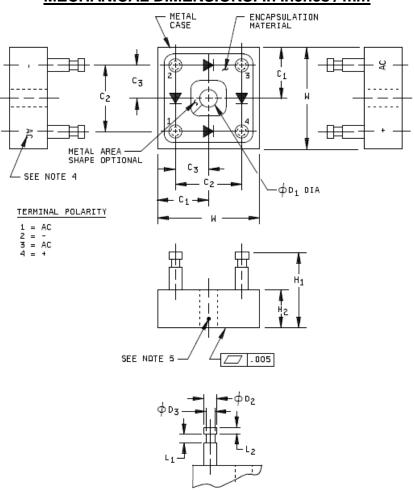
ELECTRICAL CHARACTERISTICS

MAX. RATINGS / ELECTRICAL CHARACTERISTICS All ratings are at $T_A = 25^{\circ}$ C unless otherwise specified

RATING	CONDITIONS	MIN	TYP	MAX	UNIT
Peak Inverse Voltage (PIV)	-01	-	-	200	Vdc
	-02			400	
	-03			600	
Average DC Output Current (T _C = Case Temp) (I _o)	$T_C = 55$ °C	-	-	10	Amps
	T _C = 100 °C			6.0	
Peak Single Cycle Surge Current (I _{FSM})	t_p = 8.3 ms Single Half Cycle Sine Wave, Superimposed On Rated Load	1	-	100	Amps(pk)
Maximum Forward Voltage Per Leg (V _f)	I _f = 15.7 Adc (300 μsec pulse, duty cycle < 2%)	ı	-	1.35	Volts
Maximum Instantaneous Reverse Current At Rated (PIV)	T _A = 25° C	1	-	2.0	μAmps
Reverse Recovery Time (t _{rr})	$I_f = 0.5A, I_r = 1.0A, I_{rr} = 0.25A$	-	-	2.5	usec
	Measured on discrete rectifiers prior to assembly.				

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MECHANICAL DIMENSIONS: In Inches / mm



TERMINAL DETAILS

NOTES:

- 1. Dimensions are in inches.
- 2. Millimeters are given for general information only.
- Polarity shall be marked on the bridge body adjacent to terminals. Terminal numbers are for reference and are not required to be marked on the bridge; however, terminal 1 shall be indicated by a mechanical index such as a line or flattened corner, visible from the top (terminal surface) of the device.
- Point at which T_C is read shall be in metal part of case as shown on drawing.
- In accordance with ASME Y14.5M, diameters are equivalent to Φx symbology.

	Dimensions					
Ltr	Inches		Millimeters			
	Min	Max	Min	Max		
C ₁	.367	.375	9.32	9.53		
C ₂	.350	.450	8.89	11.43		
C ₃	.175	.225	4.45	5.72		
ΦD ₁	.139	.149	3.53	3.78		
ΦD ₂	.091	.101	2.31	2.57		
ΦD3	.066	.076	1.68	1.93		
H ₁		.570		14.48		
H ₂		.370		9.40		
L ₁	.088	.098	2.24	2.49		
L ₂	.020	.030	0.51	0.76		
W	.735	.750	18.67	19.05		

Fig. 469

Note: Case finish - Black Anodized

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SENSITRON
TECHNICAL DATA
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