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Rectifier Assemblies

Single Phase Bridges, 20 Amp
Super Fast Recovery
S25AxxS7 Series

FEATURES

- Current rating: 15 A
- Recovery Times: 85 ns
- PIVs: from 200 to 600V
- Surge Ratings: 100A
- Glass Passivated Diode
- Aluminum Case Electrically Insulated
- Black Anodized Case

DESCRIPTION

This series of single-phase bridge offers the designer the ultimate in high current power supply applications. The standard recovery series allows operation at full power at frequencies, up to 20 kHz square wave, which is often used in choppers and inverters.

ABSOLUTE MAXIMUM RATINGS

Peak Inverse Voltage.....200 to 600V
Maximum Average D.C. Output Current.....See Electrical Specifications
Non-Repetitive Sinusoidal Surge (8.3mS).....See Electrical Specifications
Operating and Storage Temperature Range.....-55°C to +150°C
Typical Thermal Resistance Junction to Case..... 1.75°C/W

Electrical Specifications (at 25°C unless noted)						Maximum Ratings		
Type	PIV Per Leg	Maximum Forward Voltage Drop / Leg *1	Leakage Current Per Leg *2		Maximum Reverse Recovery Time *3	Maximum Average D.C. Output Current		Non-Repetitive Sinusoidal Surge (8.3mS) *4
			T _A = 25°C	T _A =100°C		T _C =55°C	T _C =100°C	T _A =25°C
	Volts	Volts	µA	µA	nS	Amps	Amps	Amps
S25A20S7	200	1.75	5	100	85	15	9	100
S25A40S7	400	1.75	5	100	85	15	9	100
S25A60S7	600	1.75	5	100	85	15	9	100

*1) If_{peak}=9.0A, T_p=300uS, Duty Cycle ≤ 2%

*2) V_{rpeak}=PIV, T_p=300uS, Duty Cycle ≤ 2%

*3) Discrete Rectifiers Measured Prior To Assembly, If=.5A, Ir=1A, Irr=.25A.

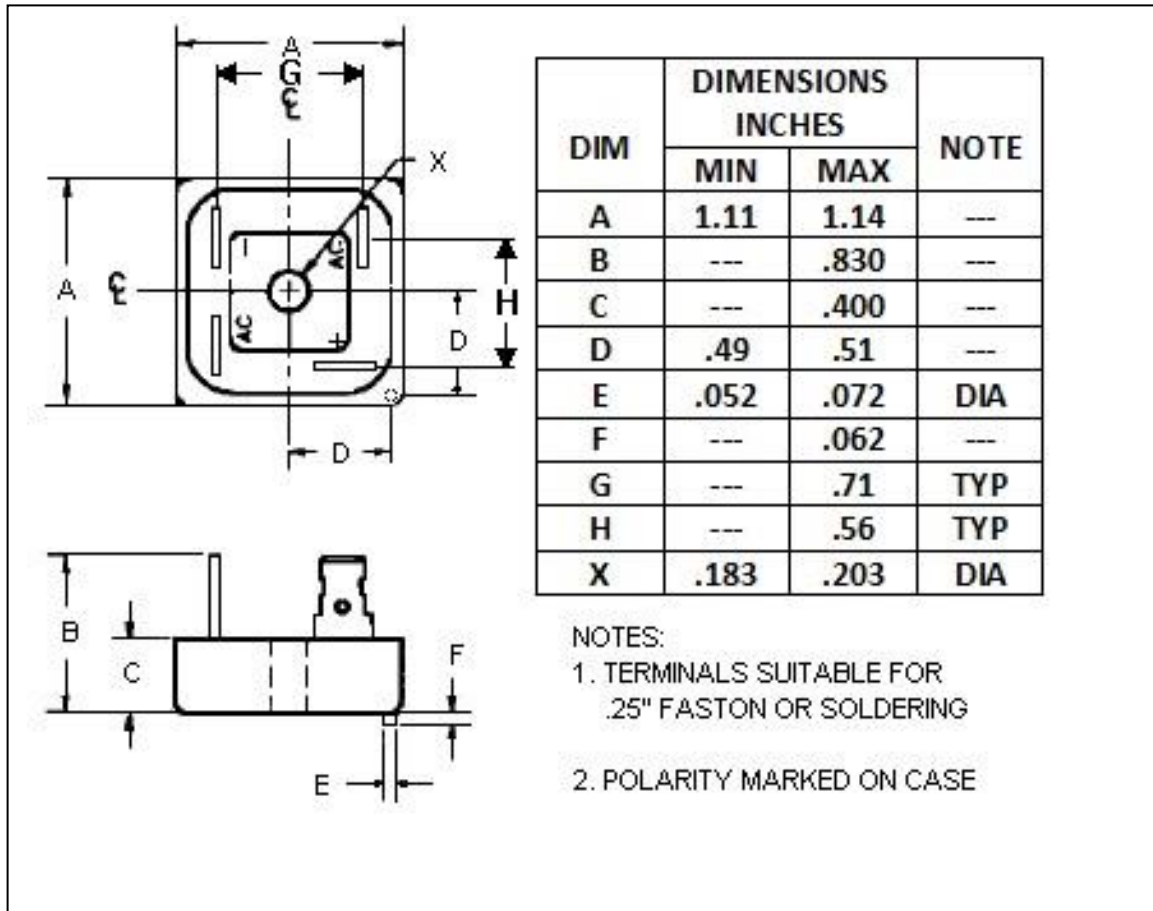
*4) T_p=8.3mS, Half Sine Pulse Super imposed On Rated Load

Specifications subject to change without notice to ensure a better product

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Marking (optional)



Alternate Current Input	A.C.	Yellow
Cathode- Positive Output	+	Red
Anode- Negative Output	-	Grey