



180 Lafayette Road
 North Hampton, NH 03862-2448
 PH: 603-964-3165
 FX: 603-964-3168
 WWW.PDEELECTRONICS.COM

Full Wave Bridge Assembly

Three Phase, High Surge
 S424CA, S424GC, S424GE, S424GH, S424IE, S424IH REV B

FEATURES: A Dielectric Withstanding Voltage Test will be performed with the metal case of the assembly connected to ground and all four terminals connected to the high potential side of a Dc Power Supply of Scope Display Test. The Voltage applied shall be 2800Vdc and held for 10 seconds.

ABSOLUTE MAXIMUM RATINGS @ T_C=25°C unless specified

Part Number	Peak Inverse Voltage Per Leg Volt	Max Average DC Output Current I _O		Peak 1 Cycle Surge Current I _{FSM} ** Amp
		55°C Amp	100°C	
S424CA	150	37	19.5	240
S424GC	600	37	19.5	240
S424GE	600	37	19.5	240
S424GH	600	40	24	240
S424IE	1000	37	19.5	240
S424IH	1000	40	24	240

ELECTRICAL CHARACTERISTICS @ T_C =25°C unless specified

Part Number	Max Reverse Current I _R		Max Forward Voltage V _F		Max Reverse Recovery Time T _{rr} * nS
	25°C μAmp	100°C	Volt	Amps	
S424CA	10	200	1.00	10	40
S424GC	10	200	1.35	10	85
S424GE	10	200	1.35	10	195
S424GH	10	200	1.20	10	5000
S424IE	10	200	1.35	10	195
S424IH	10	200	1.20	10	5000

* I_F=.5A, I_R=1A, I_{RR}=.25A , tested on discrete rectifiers prior to assembly

**t_p=8.3mS, Single Half Cycle Sine Wave, Per Leg



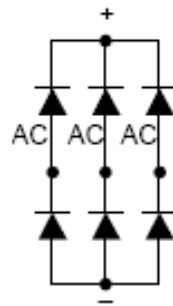
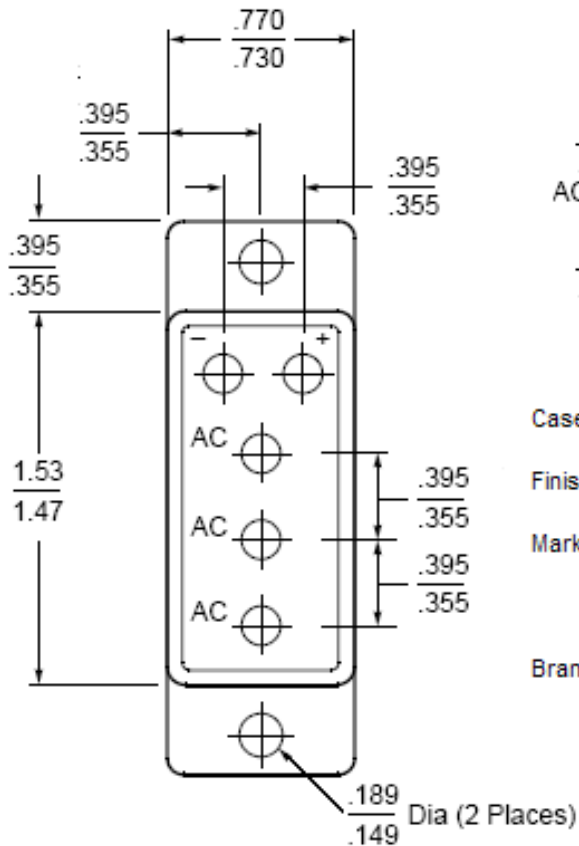
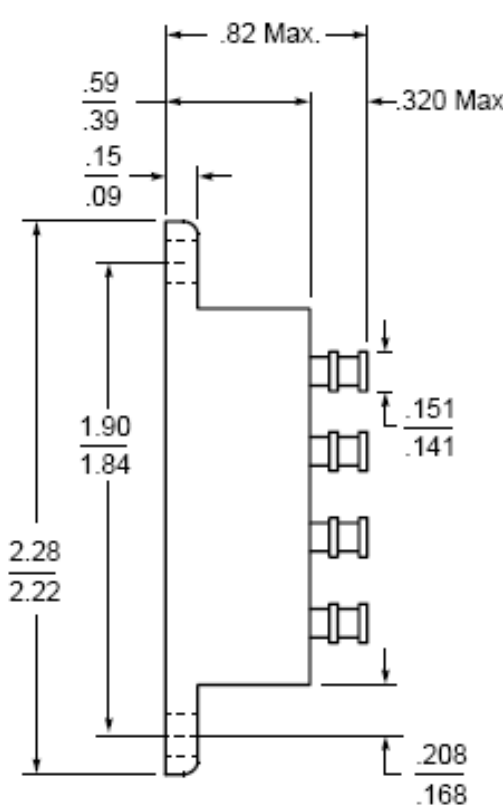
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THERMAL CHARACTERISTICS

Operating and Storage Temperature.....	-55°C to +150°C
Maximum Thermal Resistance (typical).....	0.85°C/W

MECHANICAL



- Case: 6061 Aluminum
- Finish: Black Anodize
- Marking: + Red Dot
 - Brown Dot
 AC Yellow Dot
- Branding: Manufacturer Part Number