

SLIMLINE SERIES

LOW PROFILE - LOW Θ_{J-C}

SINGLE PHASE BRIDGE RECTIFIER ASSEMBLY

GENERAL PURPOSE, FAST RECOVERY, SUPER FAST RECOVERY

The compact slimline aluminum cold case design has a much lower profile than standard rectifier assemblies. This case provides the highest thermal conductivity available today. The internal rectifiers are JAN, JAN TX and JANTXV approved devices. This compactness coupled with the low thermal resistance capability and JAN devices used to manufacture the slimline make it ideal for use where space, weight, and reliability are important such as airborne or spacecraft equipment.

MAXIMUM RATINGS

TYPE NUMBER	PIV PER LEG	MAX. AVERAGE D.C. OUTPUT CURRENT ❶			MAX. AVERAGE D.C. OUTPUT CURRENT ❷			PEAK 1 CY. SUR CUR.	PEAK RECUR. SURGE	MAX. FWD VOLTAGE PER LEG		MAX. REVERSE CURRENT AT PIV/LEG		THERMAL IMP. θJC ❸	MAX REC TIME ❹
		AMPS AT T _C			AMPS AT T _A			25°C	25°C	25°C		u AMPS			
		V	55°C	100°C	125°C	25°C	55°C	100°C	AMPS	AMPS	V	A	25°C		
SL1520	200	15	11	7.5	5.0	4.0	2.5	125	60	1.3	9.0	5.0	100	2.0	5000
SL1540	400	15	11	7.5	5.0	4.0	2.5	125	60	1.3	9.0	5.0	100	2.0	5000
SL1560	600	15	11	7.5	5.0	4.0	2.5	125	60	1.3	9.0	5.0	100	2.0	5000
SL1580	800	15	11	7.5	5.0	4.0	2.5	125	60	1.4	9.0	5.0	100	2.0	5000
SL15100	1000	15	11	7.5	5.0	4.0	2.5	125	60	1.4	9.0	5.0	100	2.0	5000
SL1510FR	100	12	9	6	5.0	4.0	2.5	125	60	1.6	9.0	5.0	100	2.0	150
SL1520FR	200	12	9	6	5.0	4.0	2.5	125	60	1.6	9.0	5.0	100	2.0	150
SL1540FR	400	12	9	6	5.0	4.0	2.5	125	60	1.6	9.0	5.0	100	2.0	150
SL1560FR	600	12	9	6	5.0	4.0	2.5	125	60	1.6	9.0	5.0	100	2.0	150
SL1580FR	800	11	8	5.5	4.5	3.6	2.25	100	50	1.75	9.0	5.0	100	2.0	175
SL15100FR	1000	11	8	5.5	4.5	3.6	2.25	100	50	1.75	9.0	5.0	100	2.0	175
SL1520S7	200	11	8	5.5	4.5	3.6	2.25	100	50	1.75	9.0	5.0	100	2.0	70
SL1540S7	400	11	8	5.5	4.5	3.6	2.25	100	50	1.75	9.0	5.0	100	2.0	70
SL1560S7	600	11	8	5.5	4.5	3.6	2.25	100	50	1.75	9.0	5.0	100	2.0	70
SL1505HE	50	15	11	7.5	4.75	3.75	2.5	150	65	1.0	6.0	10	100	2.0	30
SL1510HE	100	15	11	7.5	4.75	3.75	2.5	150	65	1.0	6.0	10	100	2.0	30
SL1515HE	150	15	11	7.5	4.75	3.75	2.5	150	65	1.0	6.0	10	100	2.0	30

① T_C = Case Temperature② T_A = Ambient Temperature, No Heat Sink

③ Maximum Thermal Impedance Junction to Case

④ Recovery Conditions; $I_F = 0.5A$ $I_R = 1.0A$ t_{rr} measured when rectifier recovers to 0.25 Amps t_{rr} measured on discrete rectifiers prior to assembly

Operating and Storage Temperature -55°C to +150°C

Case Finish - Black Anodized.

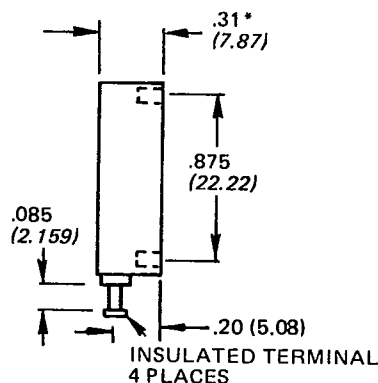
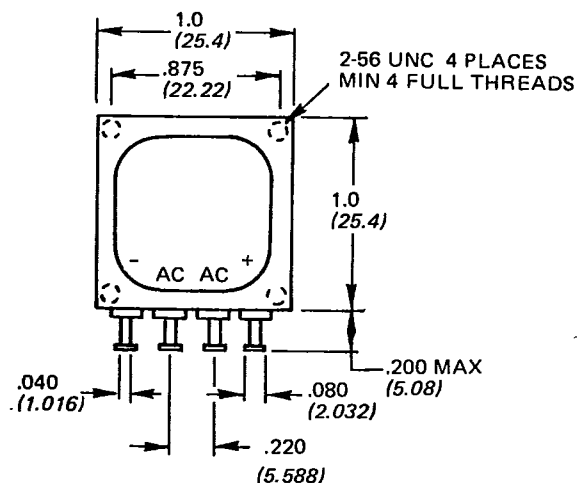
TOLERANCES - INCHES XX $\pm .020$
XXX $\pm .010$ METRIC XX $\pm (.508)$ (EXCEPT AS NOTED)
XXX $\pm (.254)$ 

FIG 408

*POTTING SURFACE UNCONTROLLED

