



180 Lafayette Road
North Hampton, NH 03862-2448
PH: 603-964-3165
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3 Phase Full Wave Bridge Assembly

Standard Recovery, Fast Recovery, Super Fast Recovery
SL63 Series

REV B

ABSOLUTE MAXIMUM RATINGS

Device	Working Reverse Voltage V_{RWM}	Max Average Rectified Current			Max Average Rectified Current			Peak 1 Cycle Surge	Peak Recurring Surge
	Volts	Amps ($I_F@T_{CASE}$)			Amps ($I_F@T_{AMB}$)			Amps	Amps
		@55°C	@100°C	@125C	@25°C	@55°C	@100C	$T_A@25C$	$T_A@25C$
SL6320	200	7.5	5.5	3.75	3.0	2.3	1.5	50	15
SL6340	400	7.5	5.5	3.75	3.0	2.3	1.5	50	15
SL6360	600	7.5	5.5	3.75	3.0	2.3	1.5	50	15
SL6380	800	7.5	5.5	3.75	3.0	2.3	1.5	50	15
SL63100	1000	7.5	5.5	3.75	3.0	2.3	1.5	50	15
SL6320FR	200	6.0	4.5	3.0	3.0	2.3	1.5	25	9
SL6340FR	400	6.0	4.5	3.0	3.0	2.3	1.5	25	9
SL6360FR	600	6.0	4.5	3.0	3.0	2.3	1.5	25	9
SL6305HE	50	10.5	7.5	5.0	3.0	2.3	1.5	60	17.5
SL6310HE	100	10.5	7.5	5.0	3.0	2.3	1.5	60	17.5
SL6315HE	150	10.5	7.5	5.0	3.0	2.3	1.5	60	17.5

ELECTRICAL CHARACTERISTICS

Device	Maximum Leakage Current Per Leg $I_R @ V_{RWM}$		Maximum Forward Voltage Per Leg $V_F @ I_F^*$		Maximum Reverse Recovery T_{RR}^{**}
	$T_C=25^\circ C$	$T_C=100^\circ C$	$T_C=25^\circ C$		$T_A=25^\circ C$
	μA	μA	Volts	Amps	nS
SL6320	5.0	100	1.4	3.0	5000
SL6340	5.0	100	1.4	3.0	5000
SL6360	5.0	100	1.4	3.0	5000
SL6380	5.0	100	1.4	3.0	5000
SL63100	5.0	100	1.4	3.0	5000
SL6320FR	5.0	100	1.3	3.0	180
SL6340FR	5.0	100	1.3	3.0	180
SL6360FR	5.0	100	1.3	3.0	180
SL6305HE	5.0	100	1.2	3.0	30
SL6310HE	5.0	100	1.2	3.0	30
SL6315HE	5.0	100	1.2	3.0	30

* 300 usec pulse, duty cycle < 2%

** Measured on discretes prior to assembly in reverse recovery test circuit from 0.5A forward current to 1.0A reverse current recovering to 0.25A reverse current.

Specifications subject to change without notice to ensure a better product

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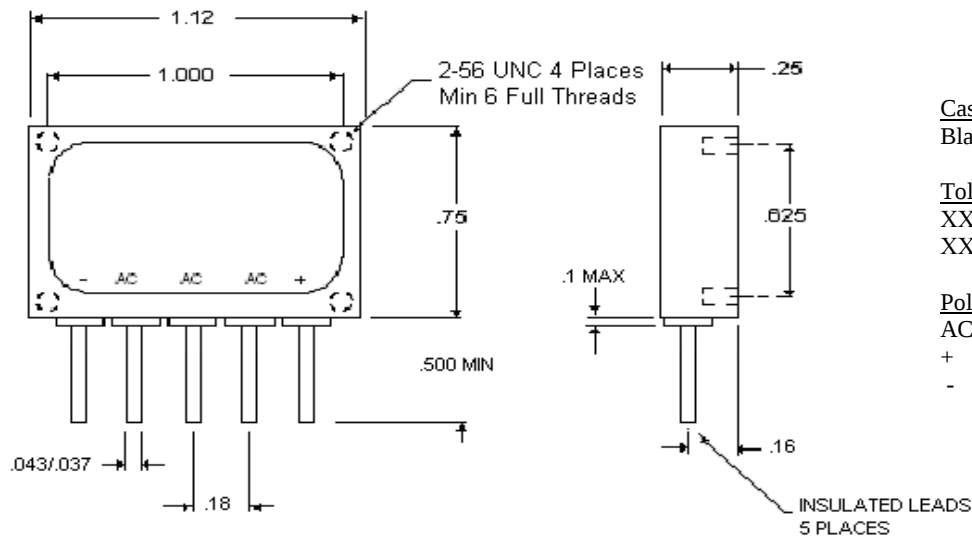
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THERMAL CHARACTERISTICS

Operating and Storage Temperature.....-55°C to +150°C
Maximum Thermal Impedance (typical).....4.5°C/W Junction to Case

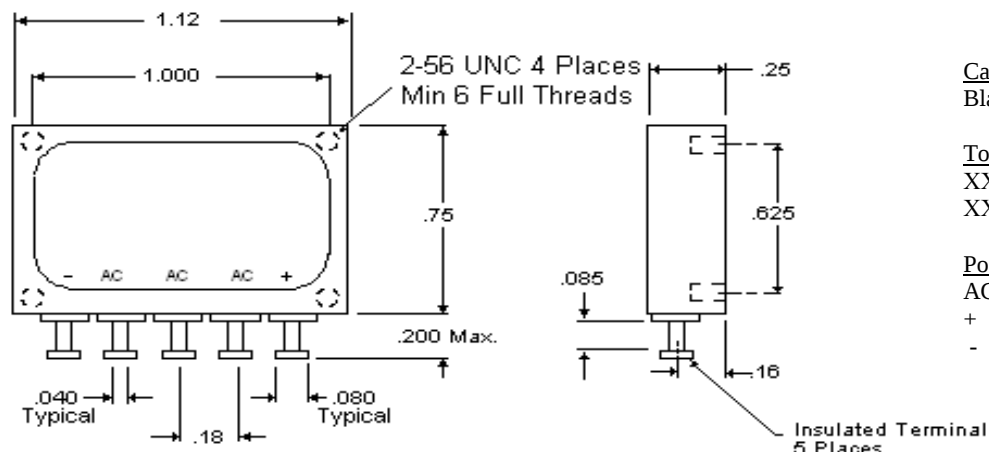


Case:
Black Anodize

Tolerances:
XX $\pm .020$ "
XXX $\pm .010$ "

Polarity:
AC -Yellow Dot
+ -Red Dot
- -Brown Dot

FOR LEADED PACKAGE APPLY SUFFIX L TO PART NUMBER



Case:
Black Anodize

Tolerances:
XX $\pm .020$ "
XXX $\pm .010$ "

Polarity:
AC -Yellow Dot
+ -Red Dot
- -Brown Dot

FOR TERMINAL PACKAGE APPLY SUFFIX T TO PART NUMBER

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