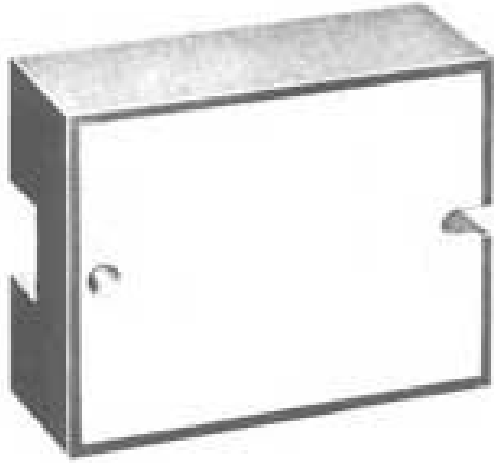





# POT

75, 100 and 120 Ampere Three Phase Bridges  
Provides 0.23 °C/W Junction-to-Case, Thermal Resistance



 This mark indicates recognition under the component program of Underwriters Laboratories, inc.

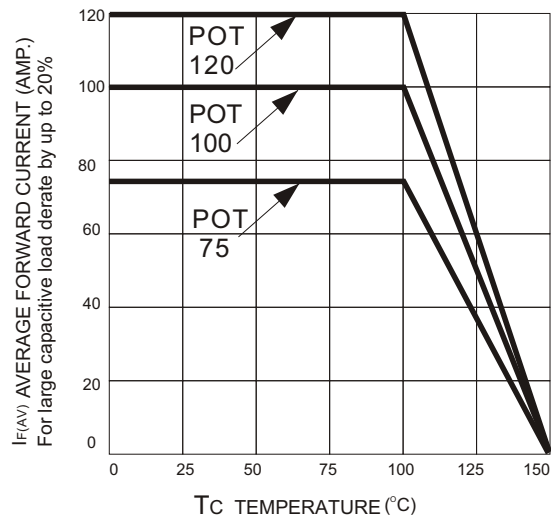
PRV/LEG	100	200	400	600	800	1000	1200	1400
TYPE NUMBER	POT120-01	POT120-02	POT120-04	POT120-06	POT120-08	POT120-10	POT120-12	POT120-14
TYPE NUMBER	POT100-01	POT100-02	POT100-04	POT100-06	POT100-08	POT100-10	POT100-12	POT100-14
TYPE NUMBER	POT75-01	POT75-02	POT75-04	POT75-06	POT75-08	POT75-10	POT75-12	POT75-14

## ELECTRICAL CHARACTERISTICS

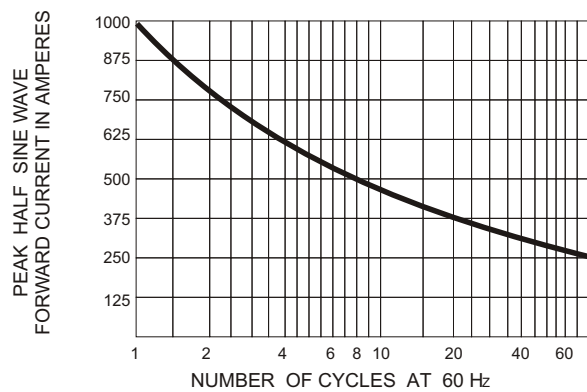
Series Type Number	POT 75	POT 100	POT 120	UNIT
Max. Repetitive Peak Reverse Voltage	100 to 1400			Volts
Max. DC Output Current. T <sub>c</sub> =100 °C	75	100	120	A <sub>dc</sub>
Max. DC Reverse Current @ PRV and 125 °C, I <sub>R</sub>	5	5	5	mA.
Max. Peak Non-Rep.Surge Current,(8.3ms)	1000	1000	1000	A <sub>pk</sub>
Max. I <sup>2</sup> t for Fusing (t < 8.3ms)	4000	4000	4000	A <sup>2</sup> SEC.
Max. Instantaneous Forward Voltage @ I <sub>F</sub> =100A <sub>pk</sub> Pulse Width=300µs. Duty cycle<2.0%	1.3	1.3	1.3	V <sub>pk</sub>
Max. Isolation Voltage	2000	2000	2000	V <sub>RMS</sub>
Thermal Resistance R <sub>θjc</sub> Junction To Case	0.23typ.	0.23 typ.	0.23 typ.	°C/W
Operating Temperature Range	-55 to+150 °C			

EDI reserves the right to change these specifications at any time without notice

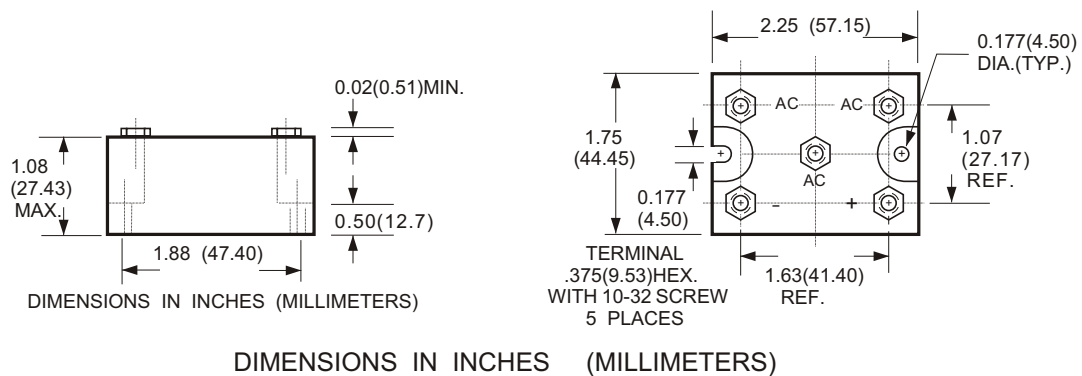
**Figure 1**  
**CURRENT DERATING**



**Figure 2**  
**NON-REPETITIVE SURGE CURRENT**



## POT SERIES MECHANICAL OUTLINE



NOTE: A thin film of silicone thermal compound is recommended between the Bridge case and mounting surface for improved thermal conduction.