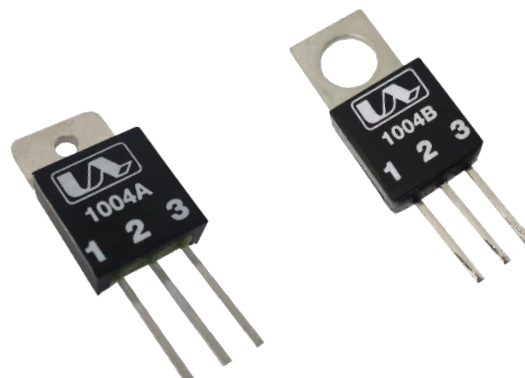




The CSR Power Regulator chip is a compact and robust unit which is capable of controlling single-phase mains driven loads of up to 15 amps. Used in conjunction with variable resistance (potentiometer), the chip gives a fully adjustable output from zero to maximum voltage.

APPLICATIONS

- Ovens
- Fish & Chips
- Restaurant's
- Hospitality
- Quartz Lamps / Heat Lamps
- Moulders
- Dryers and
- Some inductive loads,
for example transformers and motors



FEATURES

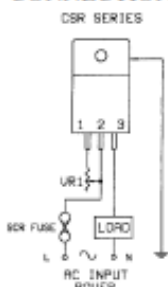
- Available in 6, 10, and 15 ampere rating.
- Flexibility of mounting.
- Easy installation (3 pin connections).
- Low hysteresis level.
- Low cost.

TECHNICAL SPECIFICATIONS

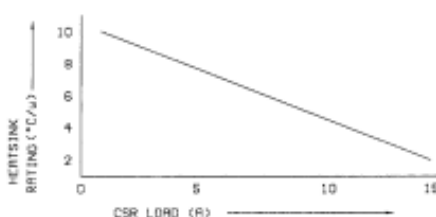
Specifications	Unit	CSR 604A	CSR 604B	CSR 1004A	CSR 1004B	CSR 1504A	CSR 1504B
RMS max. On state current	A	6	6	10	10	15	15
Peak one cycle surge current	A	100	100	120	120	150	150
Maximum off leakage current	mA	2					
Maximum holding load current	mA	30					
RMS input voltage +/- 10% @50/60 Hz	V	110/230					
Repetitive peak voltage	V	400					
Total conduction phase angle (typical)	Degrees	0 TO 160°					
Controlled phase angle (typical)	Degrees	30 TO 160°					
Power transfer at max. Current (efficiency)	%	99					
Tab surface operating range	°C	0 to +70					
Storage temperature	°C	0 to +75					
Insulation withstand capability	V	1500 for 1 min.					

Installation

CONNECTIONS

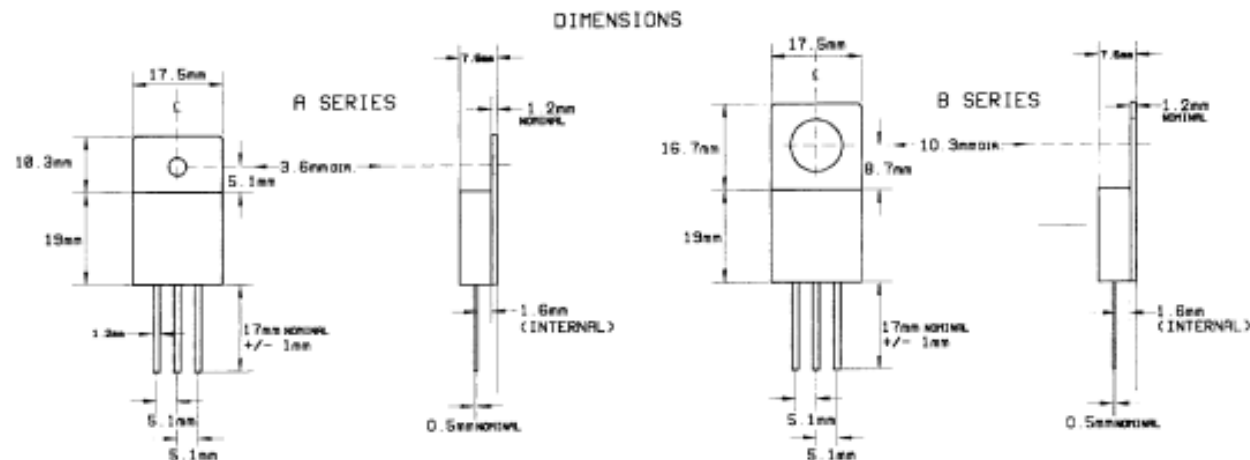


COOLING REQUIREMENTS





INSTALLATION



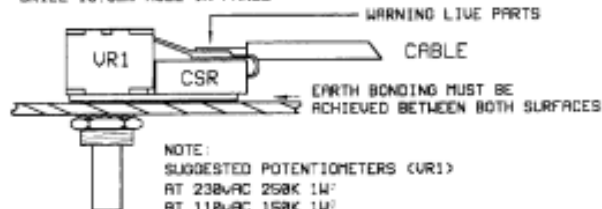
MOUNTING INSTRUCTIONS

"A" VERSION: FASTEN DIRECTLY TO HEATSINK FOR GOOD EARTH BONDING

"B" VERSION: ATTACH DIRECTLY BY THE POTENTIOMETER TO THE PANEL (AS EXAMPLE - SIDE ELEVATION).

GENERAL NOTE: WHEN FIXING CSR TO ADDITIONAL HEATSINK, A SHEAR OF HEATSINK COMPOUND SHOULD BE USED BETWEEN THE BONDED SURFACES TO AID THERMAL DISSIPATION
NOTE: HEATSINK MUST BE EARTHED

DRILL 18.3mm HOLE IN PANEL



FUSING

It is recommended to use semiconductor (fast acting) type fuses or circuit breakers (Semiconductor - MCB) for unit protection. On initial switch on some loads may need an increased Factor of Safety (F of S) for unit and/or device protection. See SRA datasheet for information.

Recommendations

Other documents available on request, which may be appropriate for your application: -

Code	Identity	Description
X10229	RFI	Filter recommendations: Addressing the EMC Directive
X10213	ITA	Interaction: Uses for phase angle and for burst fire control
X10255	SRA	Safety Requirements: Addressing the Low Voltage Directive (LVD) including, Thermal Data/Cooling, Live Parts Warning, Earthing Requirements and Fusing Recommendations

It is recommended that installation and maintenance of this equipment should be done with reference to the current edition of the I.E.T. regulations (BS7671) by suitably qualified/trained personnel. The regulations contain important requirements regarding the safety of electrical equipment. For International standards refer STANDARDS on D of C.

OPTIONAL EXTRAS

Product Code	Product Description
N30001	Control Knob RN-113B SCI
L60018	PR DIAL (1 -10) TYPE
Z01062	Heatsink Compound Syringe (Must be applied while fitting)

Note: When ordering a filter, the current at which the CSR is to be used at will be required.



PRODUCT CODE AND RELATED PRODUCT CODE

Product Code	Product Description
A01106	6 A 230 VAC Compact Power Regulator Chip - A
A01110	10 A 230 VAC Compact Power Regulator Chip - A
A01115	15 A 230 VAC Compact Power Regulator Chip - A
A01206	6 A 230 VAC Compact Power Regulator Chip - B
A01210	10 A 230 VAC Compact Power Regulator Chip - B
A01215	15 A 230 VAC Compact Power Regulator Chip - B