

# CSR/604/1004/1504

## POWER REGULATOR CHIP

**CSR** 

X10203

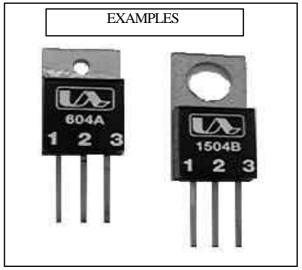
**INTRODUCTION**The CSR Power Regulator chip is a compact and robust unit which is capable of controlling single-phase mains driven loads of up to 15 amps. Used in conjunction with variable resistance (potentiometer), the chip gives a fully adjustable output from zero to maximum voltage.

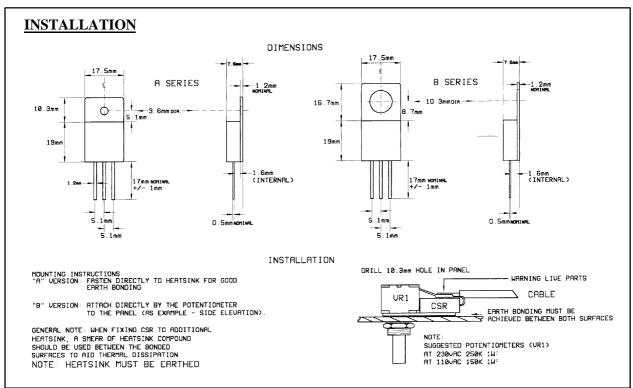
### **APPLICATIONS**

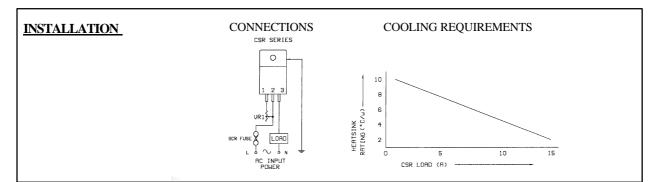
Suitable for conventional resistive heating elements such as ovens, quartz lamps, moulders and dryers. Also suitable for many inductive loads such as transformers, fans and motors.

#### **FEATURES**

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







<b>SPECIFICATIONS</b>	UNIT	CSR	CSR	CSR	CSR	CSR	CSR
		604A	604B	1004A	1004B	1504A	1504B
RMS max. On state current	A	6	6	10	10	15	15
Peak one cycle surge current	A	100	10	0 120	120	150	150
Maximum off leakage current	mA				2		
Minimum 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	%	99					
(efficiency)							
Tab surface operating range	$^{\circ}\!\mathrm{C}$				0  to + 70		
Storage temperature °C					0  to + 75		
Insulation withstand capability	V			1500	) for 1 min	ı	

#### **FUSING:**

It is recommended to use semiconductor (fast acting) type fuses or circuit breakers (Semiconductor - MCB) for unit protection. (See SRA Datasheet for further information).

#### **CE MARKING**

This product family carries a "CE marking". These phase angle type controllers require a suitable remote filter. For information see recommendation section and contact our sales desk. (See Declaration of Conformity).

#### **RECOMMENDATION**

Other documents available on request, which may be appropriate for your applications.

CODE IDENT	ITY DESCRIPTION
X10229 RFI	Filtering 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; Fusing recommendations.
AP02/4 COS	UAL Conditions of sale
NOTES TO	

**NOTE** It is recommended that installation and maintenance of this equipment should be done with reference to the current edition of the I.E.E. wiring regulations (BS7671) by suitably qualified/trained personnel. The regulations contain important requirements regarding safety of electrical equipment. (For International standards refer to I.E.C directive IEC 950).

**ORDER CODE:** State part number: CSR 'A' OR 'B' + (Load rating) and (Supply voltage) Optional extras include: Knob, Dial, Heatsink compound.



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