

2AS15A – Temperature limited diode



Temperature-limited diode for applications in AC voltage stabilization. Tungsten filament.

Filament draws 303 mA at 1.5 volts and 335 mA at 2.0 volts. Max plate voltage is 500 volts. Plate current, as function of filament and plate voltage is:

| | | |
|-----------------------|-----------------------|--------------------------|
| $V_f = 1.5 \text{ V}$ | $V_p = 100 \text{ V}$ | $I_p = 6 \mu\text{A}$ |
| $V_f = 1.5 \text{ V}$ | $V_p = 500 \text{ V}$ | $I_p = 7 \mu\text{A}$ |
| $V_f = 2.0 \text{ V}$ | $V_p = 100 \text{ V}$ | $I_p = 790 \mu\text{A}$ |
| $V_f = 2.0 \text{ V}$ | $V_p = 500 \text{ V}$ | $I_p = 1000 \mu\text{A}$ |

The device has a built-in feature of short upon heater failure.

Made by Thermosen and General Electric. Thermosen Inc. of Stanford, CT made a line of temperature limited diodes for AC voltage stabilizers, used by Superior Electric and Sorensen.