File Catalog: Special Purpose Electron Tubes

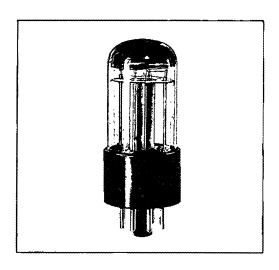
Section: Temperature Tubes

R.M.A. 5947

Eclipse-Pioneer Type TT-2



TEMPERATURE LIMITED DIODE



DESCRIPTION

This temperature limited diode is designed for use as a stable reference source for voltage regulator applications, or for use in circuits requiring a tube with temperature limited emission characteristics. Temperature limited operation of the tube causes anode current to become a direct function of filament voltage, and thus small changes in applied filament voltage will produce relatively large changes in anode current. The use of a pure tungsten filament permits continuous use of the tube in the temperature limited region without change or damage to the filament during the life of the tube. Close control of critical dimensions and a processing schedule designed to eliminate residual gas content, provide a tube with highly stable characteristics held to close tolerances.

RATINGS

PHYSICAL CHARACTERISTICS

Anode voltage	.90 volts DC	BaseInter	mediate shell octal,
Anode current	. 1.5 ma DC	8-	pin micanol
Filament voltage required to give rated anode current	4,44 volts (±2.5%)	Bulb	T-9
		Max, overall length	31/4 in.
	AC or DC	Max. seated height	211/16 in.
Filament current	1.75 amp. AC or DC	Max. diameter	15/16 in.
Long term filament stability	1%	Mounting positionBase	down or base up

MAXIMUM RATINGS

The ratings given above should be closely followed when the tube is used in circuits where stable operating characteristics and long service life are of prime importance. However, the ratings can be increased to the absolute limits specified below with a corresponding reduction in stability of operating characteristics and decrease in service life. (Refer to graphs on the reverse side of this sheet.)

Anode voltage	250 volts DC
Anode current	45 ma. DC
Anode dissipation	7 watts
Filament voltage	6.5 volts AC or DC
Filament current	2,2 amp. AC or DC

Publication No. O11-24C



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