



ELECTRONIC TUBE REFERENCE

5947

Diode (NOT rectifier) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
DIODE

Temperature-limited tungsten-filament diode designed as a stable reference source for voltage regulators and circuits requiring predictable temperature-limited emission characteristics.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	— / 1 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Diode

No fixed ratings recorded.

Published characteristics and ratings promoted where clearly recoverable from source.

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,