LANSDALE TUBE COMPANY

RADIO AND TELEVISION TUBES

LANSDALE, PENNSYLVANIA

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TYPE 6332

11 June 1953

Subminiature Cold Cathode Dicce

APPLICATION

The 6332 is a twin electrode, inert gas-filled, cold-cathode, subminiature tube for use as a voltage regulator. Its fast breakdown time, good voltage regulation and long life result in particularly reliable operation in electronic computer applications.

MAXIMUM RATINGS - Absolute Value

Maximum Cathode Current:

6 Milliampares, DC Average 2 Milliamperes Maximum average time 15 Seconds

Ambient temperature limits (-550) to 600 Centigrade.

ELECTRICAL DATA

TEST	NOTE	CONDITIONS		MIN	MAX
Starting voltage	1		E _z		80 Volts DC
Tube voltage drop	1,2,3	I _h ≈ 0.5 ma	ьЗа	50V	60 Volts
Regulation	2	$I_0^* \equiv 0.2$ to 1.5 ma	Reg.	-	5 Volts
Breakdown time	1,4	Ep = 1004	દ		50 Hicroseconds
Drop stability	5	Ib = 1.5 ma for 30 seconds		-	1 Volt
Instantaneous Current		_			
fluctuation	5	Ib = 0.2 ma		-	5%
Accelerated life test	6	$I_b = 4.0 \text{ ma}$	ቴ	100	Hours
Accelerated life test		_			
end points		Starting voltage	EZ		80 Volts
		Tube voltage drop	Eŧd	-	63 Volts
		Regulation	Reg.	-	5 Volts
		Breakdown time	t	-	50 Mcroseconds
		Drop stability			l Volt
		Instantaneous current fluctuation			5 %

- NOTES: 1. Value of starting voltage, tube voltage drop and breakdown time given are measured with a minimum ambient light intensity of 25 foot lamberts.
 - 2. A fixed resistor is used and Ebb varied to give the desired current.
 - 3. It is intended that the reading should be taken as quickly as possible (maximum elapsed time 1 second) after the tube fires.
 - 4. Test to be conducted after holding for at least 24 hours. Pulse should have a minimum rise time of 5 microseconds and a duration of approx. 100 microseconds.
 - 5. Drop stability and instantaneous current fluctuation are measured during the regulation test.
 - 6. Accelerated life test cathode current is double the maximum average cathode current.

Subminiature Cold Cathode Diode

MECHANICAL DATA

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Envelope	۰	٥	a	٠	٥	a	٠	o	9	q	٥	9	۰	٥	Đ	0	٥	0	T-2
_																			Flat press,
																			.018" Tinned flexible leads.

OUTLINE

