

ELECTRONIC TUBE REFERENCE

ZM1350

Nixie electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
NIXIE

Planar gas-discharge information-display element using multiple glow segments and a keep-alive electrode for electronically composed visual readout.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	— / —	PARALLEL HEATER	— / —
HEATING	Indirect; cold cathode	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Nixie	
MAXIMUM CATHODE CURRENT	5 mA
Cold-cathode gas-discharge display section; published electrical values retained as parameters.	

ZM1350 is a planar gas-discharge information display element, classified as Nixie for this batch. The supplied datasheet provides cold-cathode gas-discharge display ratings, operating data, and mechanical/display information.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

196X Nixie Random Datasheets

Published test conditions and operating points. Values on this page are preserved as reported by this source.

196X NIXIE RANDOM DATASHEETS

Section 1 · Nixie

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ignition Voltage	160 V	Published datasheet value
Anode Firing Voltage	130 V	Published datasheet value
Anode-to-Cathode Voltage Drop	128 V	Published datasheet value
Extinction Voltage	125 V	Published datasheet value
Cathode Current Minimum	0.8 mA	DC operation
Initial Firing Delay	20 us	Published datasheet value
Repeated Firing Delay Minimum	6 us	Published datasheet value
Repeated Firing Delay Maximum	20 us	Published datasheet value
Brightness	1700 cd/m2	Published datasheet value

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Cathode Current Maximum	5 mA	Pulse/multiplex operation
Cathode Current Maximum	1.5 mA	DC operation
Operating Temperature Minimum	0 degC	Published datasheet value
Operating Temperature Maximum	70 degC	Published datasheet value
Half-Wave Cathode Current Maximum	2 mA	Sinusoidal half-wave operation
Keep-Alive Current	30 uA	Segment 18
Storage Temperature Minimum	-30 degC	Published datasheet value
Storage Temperature Maximum	80 degC	Published datasheet value

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Refresh Rate Minimum	50 Hz	Published datasheet value
Refresh Rate Maximum	2000 Hz	Published datasheet value