



ELECTRONIC TUBE REFERENCE

1641

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

RECTIFIER-RECTIFIER

Directly heated full-wave high-vacuum rectifier, also designated RK60. Its dual rectifier sections provide unusually high inverse-voltage capability for substantial high-voltage power-supply service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	8E	BASE PINS	4
NOMINAL HEATER	5 V / 3 A	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier

PEAK INVERSE VOLTAGE	4500 V
NOMINAL OUTPUT CURRENT	250 mA
PEAK FORWARD CURRENT	330 mA
FORWARD VOLTAGE DROP	60 V

Full-wave high-vacuum rectifier; table gives two published rating sets. Maxima promoted while both sets are preserved as parameters.

SECTION2 Rectifier

PEAK INVERSE VOLTAGE	4500 V
NOMINAL OUTPUT CURRENT	250 mA
PEAK FORWARD CURRENT	330 mA
FORWARD VOLTAGE DROP	60 V

Second physical rectifier section added to represent the full-wave/double-anode structure.

Directly heated full-wave high-vacuum rectifier, printed as co-designation 1641/RK60.

SOURCE OPERATING CONDITIONS

195X Raytheon Special Purpose Tubes

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

195X RAYTHEON SPECIAL PURPOSE TUBES

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum peak inverse voltage	4500 V	PublishedRatingSet1
Maximum peak plate current per plate	150 mA	PublishedRatingSet1
Maximum DC output current	50 mA	PublishedRatingSet1
Maximum peak inverse voltage	2500 V	PublishedRatingSet2
Maximum peak plate current per plate	330 mA	PublishedRatingSet2
Maximum DC output current	250 mA	PublishedRatingSet2

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Average tube drop	60 V	FullWave

195X RAYTHEON SPECIAL PURPOSE TUBES

Section 2 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum peak inverse voltage	4500 V	PublishedRatingSet1
Maximum peak plate current per plate	150 mA	PublishedRatingSet1
Maximum DC output current	50 mA	PublishedRatingSet1
Maximum peak inverse voltage	2500 V	PublishedRatingSet2
Maximum peak plate current per plate	330 mA	PublishedRatingSet2
Maximum DC output current	250 mA	PublishedRatingSet2

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Average tube drop	60 V	FullWave

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

[Catalog](#)
[Tube types](#)
[Full books](#)
[Blog](#)
[Feedback & corrections](#)

© 2026 Tube Tinker