



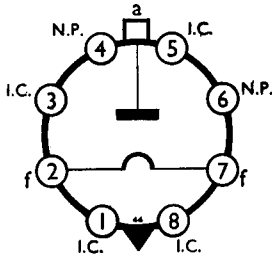
# HALF WAVE RECTIFIER

## 1.25V DIRECTLY HEATED

# U41

OCTOBER, 1952

### BASE CONNECTIONS AND VALVE DIMENSIONS



View from underside of base.

Base : International Octal  
Bulb : Tubular

Overall length : 93—103 mm.  
Seated length : 79—89 mm.  
Max. diameter : 34 mm.  
Top cap : CT2

### RATING

$V_f$	1.25	V
$I_f$	0.2	A
PIV	35 max.	kV
$I_{out}$	2 max.	mA
$i_a$ (pk)	17 max.	mA
$i_a$ (sur)	40 max.	mA
f	350 max.	kc/s

### CAPACITANCE

Ca-f 1.5 pF

### TYPICAL OPERATION

#### Single Phase ; Half Wave. Capacitor Input

$V_a$ (rms)	12.5	kV
PIV	35	kV
$V_{out}$	15	kV
$I_{out}$	2	mA
$i_a$ (pk)	12	mA
$I_{ph}$ (rms)	4.2	mA
$R_{source}$	300 min.	k $\Omega$
C	0.01	$\mu$ F
$R_{ripple}$	15	%

# U41

## VOLTAGE DOUBLER. 2 VALVES

$V_a$ (rms)	12.5	kV
PIV	35	kV
$V_{out}$	30	kV
$I_{out}$	2	mA
$i_a$ (pk)	12	mA
$I_{ph}$ (rms)	4.2	mA
$R_{source}$	300 min.	k $\Omega$
C	0.02	$\mu$ F
Ripple	10	%

## MOUNTING

Any position.

## SWITCHING

Direct.

