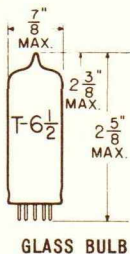


TUNG-SOL

DOUBLE DIODE
MINIATURE TYPE

COATED UNIPOTENTIAL CATHODE

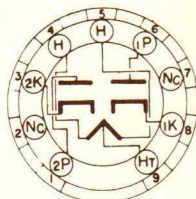
HEATER

SERIES
12.6 VOLTS
0.45 AMP.

PARALLEL
6.3 VOLTS
0.9 AMP.

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW
MINIATURE BUTT
9 PIN BASE

9B5

THE 12DF5 IS A DOUBLE DIODE FULL WAVE RECTIFIER IN THE 9-PIN MINIATURE CONSTRUCTION. IT HAS A CENTER-TAPPED HEATER, SEPARATE CATHODE CONNECTIONS, AND RELATIVELY HIGH OUTPUT CURRENT CAPABILITIES.

RATINGS

RECTIFIER SERVICE

HEATER VOLTAGE	12.6	6.3	VOLTS
MAXIMUM PEAK INVERSE PLATE VOLTAGE		1275	VOLTS
MAXIMUM AC PLATE SUPPLY VOLTAGE, (EACH PLATE RMS.) (SEE RATING CHART #1)		450	VOLTS
MAXIMUM DC OUTPUT CURRENT	SEE RATING CHART #1		
MAXIMUM STEADY STATE PEAK PLATE CURRENT (EACH PLATE) (SEE RATING CHART #2)		350	MA.
MAXIMUM TRANSIENT PEAK PLATE CURRENT (EACH PLATE) (SEE RATING CHART #3)		2.0	AMP.
MAXIMUM AC HEATER CATHODE VOLTAGE (RMS)		225	VOLTS
MAXIMUM DC HEATER-CATHODE VOLTAGE			
HEATER NEGATIVE WITH RESPECT TO CATHODE	450		VOLTS

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

AVERAGE CHARACTERISTICS

HEATER VOLTAGE	12.6	6.3	VOLTS
HEATER CURRENT	0.45	0.9	AMP.
TUBE VOLTAGE DROP			
TUBE CONDUCTING: 100 MA. EACH PLATE		40	VOLTS

TYPICAL OPERATION - FULL WAVE RECTIFIER

	INPUT TO FILTER		
	CAPACITOR	CHOKE	
HEATER VOLTAGE	12.6	6.3	VOLTS
HEATER CURRENT	0.45	0.9	AMP.
AC PLATE SUPPLY VOLTAGE (EACH PLATE) (RMS) ^A	325	450	VOLTS
FILTER INPUT CONDENSER	40	---	μf
FILTER INPUT CHOKE	---	10	HENRYS
EFFECTIVE PLATE SUPPLY RESISTANCE (EA. PLATE)	82	---	OHMS
DC OUTPUT CURRENT AT FILTER	100	100	MA.
DC OUTPUT VOLTAGE AT FILTER	330	360	VOLTS

^A AC PLATE VOLTAGE IS MEASURED WITHOUT LOAD.

