

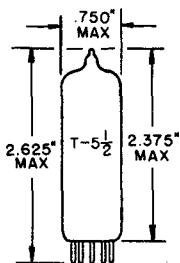
TUNG-SOLTWIN DIODE
MINIATURE TYPE

TWIN DIODES

FOR
FULL-WAVE POWER-RECTIFIER
SERVICE IN MOBILE
AND AIRCRAFT APPLICATIONS

COATED UNIPOTENTIAL CATHODE

ANY MOUNTING POSITION



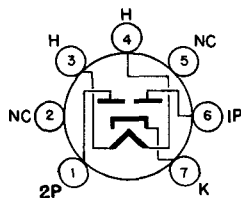
GLASS BULB

MINIATURE BUTTON

7 PIN BASE E7-1

OUTLINE DRAWING

JEDEC 5-3



BOTTOM VIEW
BASING DIAGRAM
JEDEC 5B5

THE 6202 IS A FULL-WAVE HIGH-VACUUM RECTIFIER IN THE 7 PIN MINIATURE CONSTRUCTION. IT IS INTENDED FOR USE IN POWER SUPPLIES IN WHICH THE DC CURRENT REQUIREMENTS DO NOT EXCEED 50 MILLIAMPERES.

THE 6202 IS A DIRECT REPLACEMENT FOR THE 6X4.

HEATER CHARACTERISTICS AND RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	6.3	VOLTS	600	MA.
LIMITS OF APPLIED VOLTAGE			6.3±0.6	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE:				
HEATER NEGATIVE WITH RESPECT TO CATHODE			450	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE			100	VOLTS

MAXIMUM RATINGS

DESIGN CENTER VALUES - SEE EIA STANDARD RS-239

RECTIFIER SERVICE

SINUSOIDAL SUPPLY VOLTAGES, FREQUENCY 25 TO 1000 CYCLES PER SECOND

PEAK INVERSE VOLTAGE			
ALTITUDES UP TO 40,000 FEET ^A	1250	VOLTS	
ALTITUDES FROM 40,000 TO 60,000 FEET ^A	850	VOLTS	
AC PLATE SUPPLY VOLTAGE, PER PLATE RMS	See Chart 1		
STEADY-STATE PEAK PLATE CURRENT PER PLATE	200	MA.	
TRANSIENT PEAK PLATE CURRENT PER PLATE			
MAX. DURATION 0.2 SECOND	1.45	AMP.	
DC OUTPUT CURRENT	See Rating Chart 1		
PEAK IMPACT ACCELERATION	700	G	
BULB TEMPERATURE AT HOTTEST POINT (ABS. MAX.)	+165	°C	

^ATHE ALTITUDE RATINGS AS PRESENTED REFER TO THE LIMITATIONS OF THE TUBE ITSELF. BECAUSE THE SOCKET EMPLOYED CAN BECOME THE LIMITING FACTOR IN HIGH-ALTITUDE OPERATION, CONSIDERATION MUST BE GIVEN TO THE VOLTAGE-BREAKDOWN CAPABILITIES OF THE TUBE AND SOCKET COMBINATION EMPLOYED.

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CHARACTERISTICS

FULL WAVE RECTIFIER
ALTITUDES UP TO 40,000 FEET

AC PLATE-SUPPLY VOLTAGE PER PLATE, RMS	325	450	VOLTS
FILTER INPUT CAPACITOR	4	-----	μ f
FILTER INPUT CHOKE	-----	8	HENRYS
TOTAL PLATE-SUPPLY RESISTANCE PER PLATE	175	-----	OHMS
DC OUTPUT CURRENT	50	50	MA.
DC OUTPUT VOLTAGE AT FILTER INPUT	365	375	VOLTS
TUBE VOLTAGE DROP			
MEASURED WITH APPLIED DC AT 50 MA. PER PLATE		22	VOLTS

SPECIAL TESTS AND RATINGS

HEATER CYCLING RATING			
SHOCK RATING			
VIBRATION RATING			
ALTITUDE RATING	TO	60,000	FEET

