

TUNG-SOL

TWIN DIODE
MINIATURE TYPE

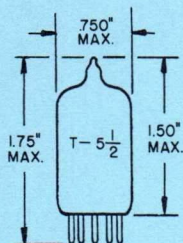
FOR

MOBILE COMMUNICATIONS

EQUIPMENT

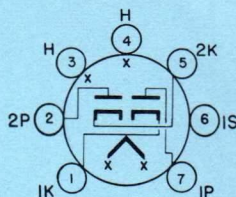
COATED UNIPOTENTIAL CATHODE

ANY MOUNTING POSITION



GLASS BULB

MINIATURE BUTTON
7 PIN BASE E7-1
OUTLINE DRAWING
JEDEC 5-1



BOTTOM VIEW

BASING DIAGRAM
JEDEC 6BT

THE 6663 IS A MINIATURE HIGH-PERVEANCE TWIN DIODE SUITABLE FOR A WIDE VARIETY OF LOW-CURRENT APPLICATIONS WHICH INCLUDE SERVICE IN FM DISCRIMINATOR CIRCUITS AND IN CLIPPING, SWITCHING AND ISOLATION CIRCUITS. FOR FLEXIBILITY IN CIRCUIT DESIGN, EACH SECTION INCORPORATES A SEPARATE CATHODE CONNECTION AND CAN BE USED INDEPENDENTLY.

THE 6663 MAY BE OPERATED WITHOUT SERIOUS DEGRADATION UNDER NORMAL VARIATIONS IN SUPPLY VOLTAGE AS ENCOUNTERED WITH AUTOMOTIVE ELECTRICAL SYSTEMS. ALTHOUGH THE TUBE WILL TOLERATE LARGE HEATER VOLTAGE VARIATIONS FOR SHORT PERIODS, HIGHER EQUIPMENT RELIABILITY CAN BE ACHIEVED WITH IMPROVED SUPPLY VOLTAGE REGULATION. THE ELECTRICAL CHARACTERISTICS OF THE 6663 ARE EQUIVALENT TO THE 6AL5.

DIRECT INTERELECTRODE CAPACITANCES

	WITH A SHIELD	WITHOUT SHIELD	
PLATE 1 TO CATHODE 1, HEATER, & INTERNAL SHIELD	3.2	2.5	pf
PLATE 2 TO CATHODE 2, HEATER, & INTERNAL SHIELD	3.2	2.5	pf
CATHODE 1 TO PLATE 1, HEATER, & INTERNAL SHIELD	3.6	3.4	pf
CATHODE 2 TO PLATE 2, HEATER, & INTERNAL SHIELD	3.6	3.4	pf
PLATE 1 TO PLATE 2 (MAX.)	0.026	0.068	pf

A WITH EXTERNAL SHIELD 316 CONNECTED TO PIN 6.

HEATER CHARACTERISTICS AND RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	6.3	VOLTS	300	MA.
HEATER SUPPLY LIMITS:				
VOLTAGE OPERATION			6.3 ± 1.3	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE:				
HEATER NEGATIVE WITH RESPECT TO CATHODE			275	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE			100	VOLTS

CONTINUED ON FOLLOWING PAGE

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

MAXIMUM RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

PEAK INVERSE PLATE VOLTAGE	275	VOLTS
STEADY-STATE PEAK PLATE CURRENT PER PLATE	60	MA.
TRANSIENT PEAK PLATE CURRENT PER PLATE		
MAX. DURATION 0.1 SECOND	350	MA.
DC OUTPUT CURRENT PER PLATE	10	MA.

AVERAGE CHARACTERISTICS

TUBE VOLTAGE DROP AT $I_b = 60$ MA. DC PER PLATE	10	VOLTS
--	----	-------

SPECIAL TESTS AND RATINGS

HEATER-CYCLING RATING

