

TWIN DIODE

7-PIN MINIATURE TYPE

For use in mobile communications equipment

GENERAL	DATA									
Electrical:										
Heater, for Unipotential Cathode Voltage 6.3 Current at 6.3 volts 0.3 Direct Interelectrode Capacitanc	± 20%* .	ac or dc	volts . amp							
	Without External Shield	With External Shield ⁰								
Plate to cathode, internal shield, and heater (Each unit)	2.5	3.2	μμf							
unit)	3.4	3.6	μμf							
of unit No.2	0.068 max.	0.026 max.	μμf							
Mechanical:										
Operating Position	cluding ti	p). 1-1/8" ± . 0.650" to See General Si	1-1/2" 3/32" 0.750" ection T5-1/2 .E7-1) .6BT e of No.2							
Unit No.2 Pin 3- Heater Pin 4- Heater		Shield Pin 7- Plate (Unit	of							
RECTIFIER Values are for Each Unit Maximum Ratings, Design-Maximum Values:										
PEAK INVERSE PLATE VOLTAGE PEAK PLATE CURRENT PEAK PLATE CURRENT (For pulse du		. 275 max. . 60 max.	volts ma							
of 0.1 second maximum) DC PLATE CURRENT PEAK HEATER—CATHODE VOLTAGE:	• • • • •	. 350 max. . 10 max.	ma ma							
Heater negative with respect t Heater positive with respect t	o cathode o cathode	. 275 max. . 100 max.	volts volts							



RCA 6663/6AL5 TWIN DIODE

Characteristics:

Heater Voltage. Plate Voltage . Plate Current .										6.3	volts
Plate Voltage .	•	•								10	volts
Plate Current .	•	•	•	•	•					60	ma

When the heater is operated from storage-battery-with-charger supply or similar supplies, the normal battery-voltage fluctuation may be as much as 35 per cent or more. Although such variation in heater voltage is permissible for short periods, reliability can be increased with improved supply-voltage regulation.

With external shield JEDEC No.316 connected to pin 6.

SPECIAL RATINGS & PERFORMANCE DATA

Heater-Cycling Life Performance:

This test is performed on a sample lot of tubes from each production run. A minimum of 2000 cycles of intermittent operation is applied under the following conditions: heater volts = 7.5 cycled one minute on and one minute off, heater 135 volts positive with respect to cathode, and all other elements connected to ground. At the end of this test, tubes are checked for heater-cathode shorts and open circuits.