

## 2225-4L

3.5 Watts, 24 Volts, Class C Microwave 2200-2500 MHz

## **GENERAL DESCRIPTION**

The 2225-4L is a COMMON BASE transistor capable of providing 3.5 Watts, Class C output power over the band 2200-2500 MHz. The transistor includes input prematching for full broadband capability. Gold metalization and diffused ballasting are used to provide high reliability and supreme ruggedness. The transistor uses a fully hermetic High Temperature Solder Sealed package.

## **ABSOLUTE MAXIMUM RATINGS**

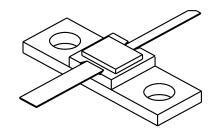
Maximum Power Dissipation @ 25°C 10 Watts

**Maximum Voltage and Current** 

BVcesCollector to Emitter Voltage40 VoltsBVeboEmitter to Base Voltage3.5 VoltsIcCollector Current0.6 Amps

**Maximum Temperatures** 

Storage Temperature  $-65 \text{ to} + 200 ^{\circ}\text{C}$ Operating Junction Temperature  $+200 ^{\circ}\text{C}$  CASE OUTLINE 55LV, STYLE 1



ELECTRICAL CHARACTERISTICS @ 25 °C

SYMBOL	CHARACTERISTICS	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Pout Pin Pg	Power Out Power Input Power Gain	F = 2200-2500 MHz Vcc = 24 Volts	3.5 8.5		0.5	Watts Watts dB
ηc VSWR	Efficiency Load Mismatch Tolerance	Pout =3.5Watts		40	10:1	%

BVces BVebo	Collector to Emitter Breakdown Emitter to Base Breakdown	Ic = 10  mA $Ie = 5  mA$	40 3.5			Volts Volts
Hfe	Current Gain	Vce = 5V, Ic = 200  mA	20		120	
Cob	Output Capacitance	Vcb = 24 F = 1 MHz		7		pF
θјс	Thermal Resistance	$Tc = 25^{\circ}C$			17.0	°C/W

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