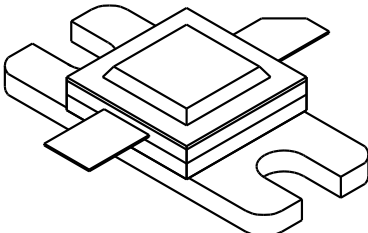


2021-25

25 Watts, 24 Volts, Class C
Microwave 2000 - 2130 MHz

<p>GENERAL DESCRIPTION</p> <p>The 2021-25 is a COMMON BASE transistor capable of providing 25 Watts, Class C output power over the band 2000-2130 MHz. The transistor includes input and output 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.</p>	<p>CASE OUTLINE 55AW, STYLE 1</p> 
<p>ABSOLUTE MAXIMUM RATINGS</p> <p>Maximum Power Dissipation @ 25°C 58 Watts</p> <p>Maximum Voltage and Current</p> <p>BVces Collector to Emitter Voltage 40 Volts BVebo Emitter to Base Voltage 3.5 Volts Ic Collector Current 3.0 Amps</p> <p>Maximum Temperatures</p> <p>Storage Temperature - 65 to + 200°C Operating Junction Temperature + 200°C</p>	

ELECTRICAL CHARACTERISTICS @ 25 °C

SYMBOL	CHARACTERISTICS	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Pout	Power Out	F = 2000-2100 MHz Vcc = 24 Volts	25			Watts
Pin	Power Input		5.0			Watts
Pg	Power Gain	Pout = 25 Watts	7.0	50		dB
ηc	Efficiency					%
VSWR1	Load Mismatch Tolerance				3:1	

BVces	Collector to Base Breakdown	Ic = 10 mA	40			Volts
BVebo	Emitter to Base Breakdown	Ie = 5 mA	3.5			Volts
Hfe	Current Gain	Vce = 5V, Ic=1 A	20		120	
Cob	Output Capacitance*					pF
θjc	Thermal Resistance	Tc = 25°C			3.0	°C/W

* Not measureable due to internal prematch network

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