

## 2301

1.5 Watt - 20 Volts, Class C Microwave 2300 MHz

The 230 Class C, ballastin	<b>ERAL DESCRIPTION</b> 1 is a COMMON BASE transistor can RF output power at 2300 MHz. Gold g are used to provide high reliability r uses a fully hermetic High Tempera	d metalization and diffused and supreme ruggedness. The	CASE OUTLINE 55 BT- Style 1
ABSO	<b>LUTE MAXIMUM RATI</b>	NGS	$\sim$
Maximum Power Dissipation @ 25°C		5.6 Watts	
<b>Maximu</b> BVces BVebo	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	45 Volts 3.5 Volts	
Ic	Collector Current	0.3 A	
Maximum Temperatures Storage Temperature Operating Junction Temperature		- 65 to + 200°C + 200°C	

## ELECTRICAL CHARACTERISTICS @ 25 °C

SYMBOL	CHARACTERISTICS	TEST CONDITIONS	MIN	ТҮР	MAX	UNITS
Pout Pin Pg η <sub>c</sub> VSWR <sub>1</sub>	Power Out Power Input Power Gain Collector Efficiency Load Mismatch Tolerance	F = 2.3  GHz Vcb = 20 Volts Po = 1.5 Watts As Above F = 2.3 GHz, Po = 1.5 W	1.5 8.0	40	0.24 30:1	Watt Watt dB %

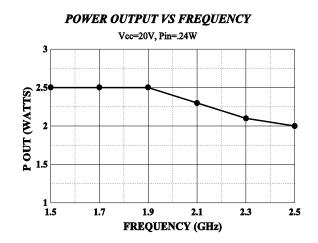
BVces BVebo h <sub>FE</sub>	Collector to Emitter Breakdown Emitter to Base Breakdown Current Gain	Ic = 10 mA Ie = 1.0 mA Vce = 5 V, Ic = 100 mA	45 3.5 10			Volts Volts
Cob θjc	Output Capacitance Thermal Resistance	F = 1.0  MHz,  Vcb = 22  V		4.0	31	pF °C/W

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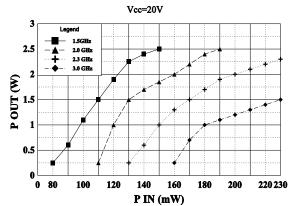
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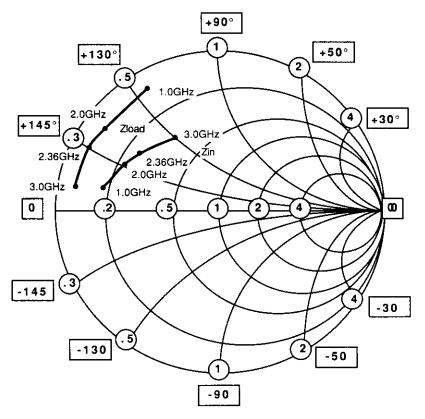
TRANSFER CHARACTERISTICS VS FREQUENCY



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## NORMALIZED IMPEDANCE AND ADMITTANCE COORDINATES



NORMALIZED TO A 50 OHM SYSTEM.

FREQUENCY	R	in +JX	FREQUENCY	RZIG	bad +JX
1000	8.5	7.5	1000	5	22
2000	11	15	2000	4	17
2300	13	18	2300	3.7	14
3000	16	2 0	3000	2.8	6.5