

S200 - 50

200 Watts, 50 Volts, Class AB or C Milcom 1.5 - 30 MHz

GENERAL DESCRIPTION

The S200-50 is a COMMON EMITTER, HF, SSB device intended for operation from a 50 Volts supply. It may be operated in Class A, AB or C. The device exhibits excellent linearity and ruggedness.

ABSOLUTE MAXIMUM RATINGS

Maximum Power Dissipation @ 25°C 320 Watts

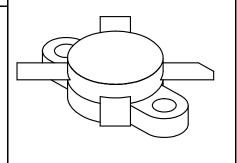
Maximum Voltage and Current

BVces Collector to Emiter Voltage 110 Volts
BVebo Emitter to Base Voltage 4.0 Volts
Ic Collector Current 30 A

Maximum Temperatures

Storage Temperature $-65 \text{ to } +150^{\circ}\text{C}$ Operating Junction Temperature $+150^{\circ}\text{C}$

CASE OUTLINE 55HX, Style 2



ELECTRICAL CHARACTERISTICS @ 25 °C

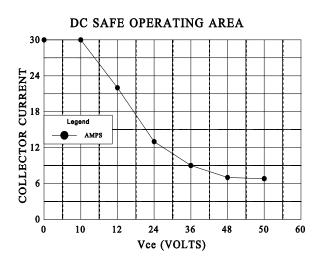
SYMBOL	CHARACTERISTICS	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Pout Pin Pg ¶c VSWR	Power Output Power Input Power Gain Efficiency Load Mismatch Tolerance	F = 30 MHz Vcc = 50 Volts Class C Bias	200 12	14.5 60	12 30:1	Watts Watts dB %

BVebo	Emitter to Base Breakdown	Ie = 20 mA	4.0			Volts
BVces	Collector to Emitter Breakdown	Ic = 100 mA	110			Volts
BVceo	Collector to Emitter Breakdown	Ie = 200 mA	70			Volts
Cob	Output Capacitance	Vcb = 50V, F = 1 MHz		300		pF
$\mathbf{h}_{\mathbf{FE}}$	DC - Current Gain	Vce = 5 V, Ic = 1 A	10			_
θјс	Thermal Resistance				.55	°C/W

Rev. A August 2005







POWER OUTPUT vs POWER INPUT

