

## *1035MP*

35 Watts, 50 Volts Avionics 1025 - 1150 MHz

The 1035 M systems in metallizatio broadband	AL DESCRIPTION AP is a COMMON BASE bipolar transit the frequency band 1025-1150 MHz. on for proven highest MTTF. The transic capability. Low thermal resistance, extends life.	CASE OUTLINE 55FW-1	
	J <b>TE MAXIMUM RATINGS</b> Power Dissipation @, 25°C <sup>2</sup>	125 Watts Pk	<u>^</u>
Waximumi	tower Dissipation @ 25 C	125 Watto I K	
Maximum	Voltage and Current		
BVces	Collector to Emitter Voltage	65 Volts	
BVebo	Emitter to Base Voltage	3.5 Volts	$\sim \sim \sim \sim$
Ic	Collector Current	2.5 Amps Pk	$\langle \rangle$ $\rangle$
Maximum	Temperatures	_	$\sim$ $\sim$
Storage Temperature - 65 to + 150°C			
Operating J	unction Temperature	$+ 200^{\circ}$ C	

## **ELECTRICAL CHARACTERISTICS** @ 25°C

SYMBOL	CHARACTERISTICS	TEST CONDITIONS	MIN	ТҮР	MAX	UNITS
P <sub>OUT</sub>	Power Out	F= 1025-1150 MHz	35			W
P <sub>IN</sub>	Power Input	Vcc = 50 Volts			3.5	W
P <sub>G</sub>	Power Gain	$PW = 10 \ \mu sec, DF = 1\%$	10	10.5		dB
ης	Efficiency			45		%
VSWR	Load Mismatch Tolerance	F = 1090 MHz			10:1	

## FUNCTIONAL CHARACTERISTICS @ 25°C

BVebo	Emitter to Base Breakdown	Ie = 5 mA	3.5			V
BVces	Collector to Emitter Breakdown	Ic = 15mA	65			V
Hfe	DC Current Gain	Vce = 5V, Ic = 100 mA	20			
Cob	Output Capacitance	Vcb = 50 V, f = 1 MHz		17	20	pF
θjc <sup>2</sup>	Thermal Resistance				1.4	°C/W

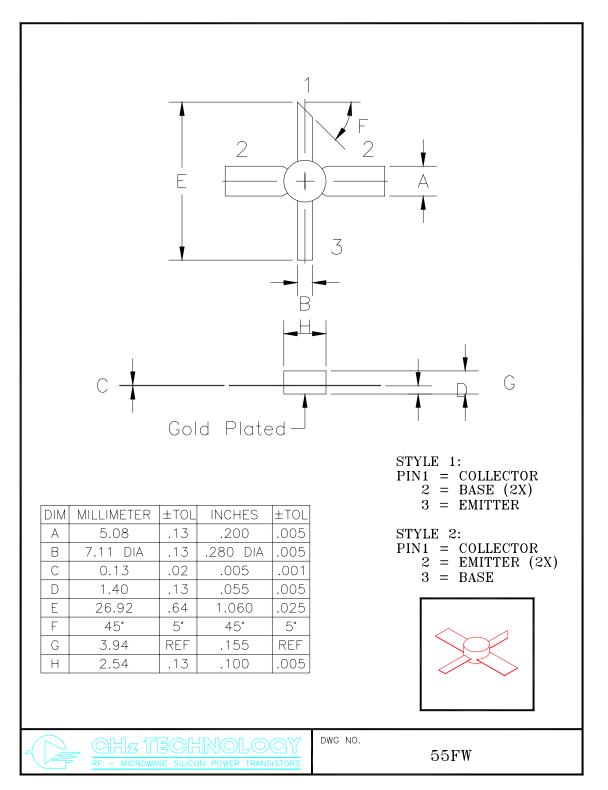
Note 1: At rated output power and pulse conditions

2: At rated pulse conditions

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