

TAN150

CASE OUTLINE 55AT, Style 1

150 Watts, 50 Volts, Pulsed Avionics 960 - 1215 MHz

GENERAL DESCRIPTION

The TAN150 is a high powered COMMON BASE bipolar transistor. It is designed for pulsed systems in the frequency band 960-1215 MHz. The device has gold thin-film metallization and diffused ballasting for proven highest MTTF. The transistor includes input and output prematch for broadband capability. Low thermal resistance package reduces junction temperature, extends life.

ABSOLUTE MAXIMUM RATINGS

Maximum Power Dissipation Device Dissipation @25°C	583 W				
Maximum Voltage and CurrentCollector to Base Voltage (BV_{ces}) Emitter to Base Voltage (BV_{ebo}) Collector Current (I_c)	55 V 3.5 V 15.0 A				
Maximum TemperaturesStorage Temperature-65 to +150 °COperating Junction Temperature+200 °C					

ELECTRICAL CHARACTERISTICS @ 25°C

SYMBOL	CHARACTERISTICS	TEST CONDITIONS	MIN	ТҮР	MAX	UNITS
Pout	Power Out	F = 960-1215 MHz	150			W
P _{in}	Power Input	Vcc = 50 Volts			30	W
Pg	Power Gain	$PW = 20 \ \mu sec$	7.0			dB
η_c	Collector Efficiency	DF = 5%		38		%
VSWR	Load Mismatch Tolerance	F = 1090 MHz			10:1	

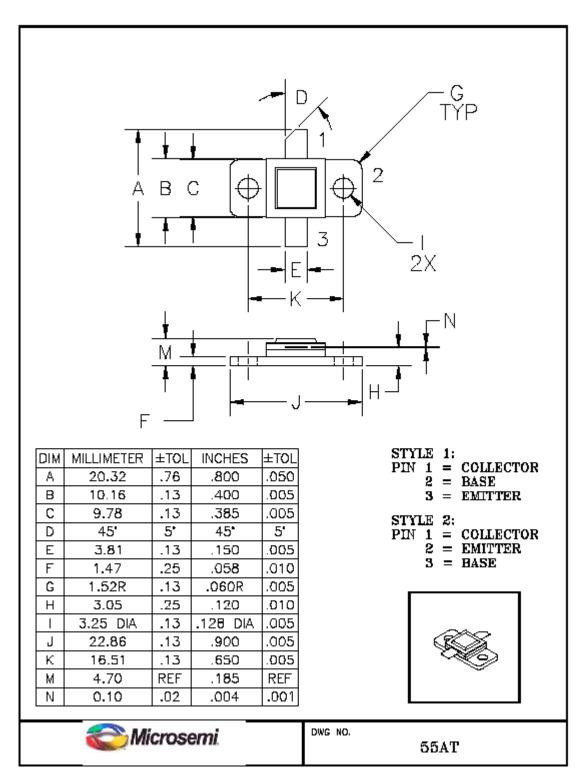
FUNCTIONAL CHARACTERISTICS @ 25°C

BV _{ebo}	Emitter to Base Breakdown	Ie = 10 mA	3.5		V
BV _{ces}	Collector to Emitter Breakdown	Ic = 50 mA	55		V
h _{FE}	DC – Current Gain	Vce = 5V, $Ic = 1 A$	10		
θjc ¹	Thermal Resistance			0.3	°C/W

NOTE 1: At rated output power and pulse conditions

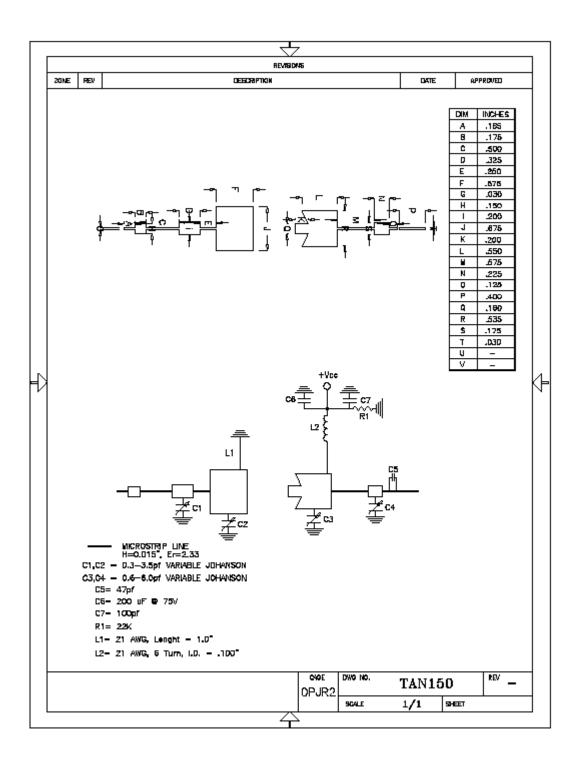
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TAN150 TEST CIRCUIT:



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