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## MDS400

400 Watts Pk, 45 Volts, 32 $\mu$ s, 2%  
Avionics 1030-1090 MHz

### GENERAL DESCRIPTION

The MDS400 is a COMMON BASE transistor capable of providing 400 Watts Peak, Pulsed, RF Output Power over the band 1030-1090 MHz. The transistor includes double input prematching for full broadband capability. Gold Metalization and Diffused Ballasting are used to provide high reliability and supreme ruggedness.

### ABSOLUTE MAXIMUM RATINGS

Maximum Power Dissipation @ 25°C 1450 Watts

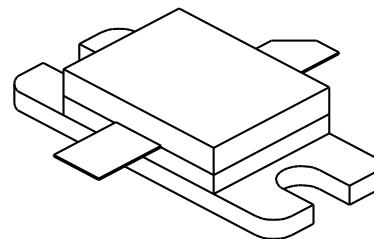
#### Maximum Voltage and Current

BVces	Collector to Emitter Voltage	55 Volts
BVebo	Collector to Base Voltage	4.0 Volts
Ic	Collector Current	40 Amps

#### Maximum Temperatures

Storage Temperature	-40 to + 200°C
Operating Junction Temperature	+ 200°C

### CASE OUTLINE 55KT, STYLE 1



### ELECTRICAL CHARACTERISTICS @ 25 °C

SYMBOL	CHARACTERISTICS	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Po	Power Out	F = 1030/1090 MHz	400			Watts
Pin	Power Input	Vcc = 45 Volts				Watts
Pg	Power Gain	Pulse Width = 32 $\mu$ s	6.5		90	dB
h	Efficiency	Duty Factor = 2 %		35		%
VSWR <sup>1</sup>	Load Mismatch Tolerance	At Rated Power			10:1	

BVces	Collector to Emitter Breakdown	Ic = 50 mA	55			Volts
BVebo	Emitter to Base Breakdown	Ie = 30 mA	3.5			Volts
H <sub>fe</sub>	Current Gain	Vce = 5 V, Ic = 1 A	10			
R <sub>θjc</sub>	Thermal Resistance	Tc = 25 °C		0.12		°C/W

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