



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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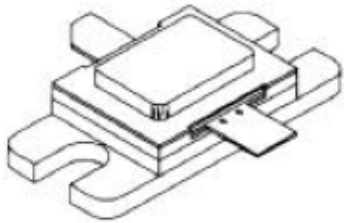
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# MS2473

600 Watts, 50 Volts, Pulsed  
Avionics 1090 MHz

<p><b>GENERAL DESCRIPTION</b></p> <p>The MS2473 is a high power COMMON BASE bipolar transistor. It is designed for pulsed systems in the 1090MHz frequency band. The device has gold thin-film metallization for proven highest MTTF. Low thermal resistance packaging reduces the junction temperature and extends device lifetime.</p>	<p style="text-align: center;"><b>CASE OUTLINE M112</b></p>  <p style="text-align: center;"><b>.400 x .500 2LFL (M112)</b> hermetically sealed</p>
<p><b>ABSOLUTE MAXIMUM RATINGS</b></p> <p>Maximum Power Dissipation @ 25°C<sup>2</sup> 2300 Watts</p> <p><b>Maximum Voltage and Current</b></p> <p>BVcbo Collector to Base Voltage 65 Volts          BVebo Emitter to Base Voltage 3.5 Volts          Ic Collector Current 46 Amps</p> <p><b>Maximum Temperatures</b></p> <p>Storage Temperature - 65 to + 150°C          Operating Junction Temperature + 200°C</p>	

## ELECTRICAL CHARACTERISTICS @ 25 °C

SYMBOL	CHARACTERISTICS	TEST CONDITIONS	MIN	TYP	MAX	UNITS
<b>P<sub>out</sub></b>	Power Out	F = 1090 MHz	600			Watts
<b>P<sub>in</sub></b>	Power Input = 150W	V <sub>cc</sub> = 50 Volts		150		Watts
<b>P<sub>g</sub></b>	Power Gain	PW = 10 μsec	6.0			dB
<b>η<sub>c</sub></b>	Collector Efficiency	DF = 1%	35			%
<b>RL<sub>IN</sub></b>	Input Return Loss	F = 1090 MHz	10			dB

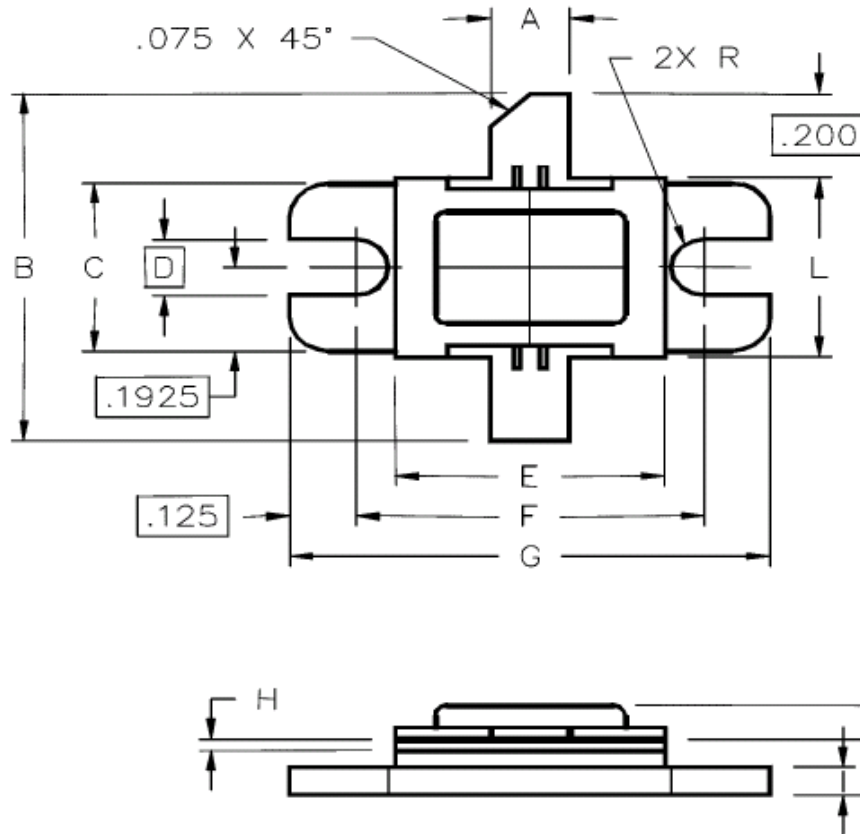
<b>BVebo</b>	Emitter to Base Breakdown	I <sub>e</sub> = 10 mA	3.5			Volts
<b>BVcbo</b>	Collector to Base Breakdown	I <sub>c</sub> = 25 mA	65			Volts
<b>I<sub>ces</sub></b>	Collector to Emitter Leakage	V <sub>ce</sub> = 50V			35	mA
<b>h<sub>FE</sub></b>	DC - Current Gain	V <sub>ce</sub> = 5V, I <sub>c</sub> = 1A	5		200	
<b>Θ<sub>jc</sub><sup>2</sup></b>	Thermal Resistance			0.06		C/W

Note 1: At rated output power and pulse conditions

2: At rated pulse conditions

Initial , January 2007

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**PACKAGE STYLE M112**


	MINIMUM INCHES/MM	MAXIMUM INCHES/MM		MINIMUM INCHES/MM	MAXIMUM INCHES/MM
A	.145/3,68	.155/3,93	I	.055/1,40	.065/1,65
B	.750/19,05		J	.115/2,92	.135/3,43
C	.380/9,65	.390/9,91	K		.230/5,64
D	.130/3,30		L	.395/10,03	.410/10,41
E	.495/12,57	.505/12,83			
F	.640/16,26	.655/16,64			
G	.890/22,61	.910/23,11			
H	.002/0,05	.006/0,15			

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