



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!



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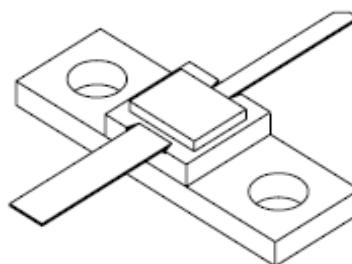
# 1014-6A

6 Watts - 28 Volts, Class C  
Microwave 1000 - 1400 MHz

## GENERAL DESCRIPTION

The 1014-6A is an internally matched, COMMON BASE transistor capable of providing 6 Watts of CW or pulsed RF output power across the band 1000 to 1400 MHz. This hermetically solder-sealed transistor is specifically designed for microwave broadband applications. It utilizes gold metallization and diffused emitter ballasting to provide high reliability and supreme ruggedness.

## CASE OUTLINE 55LV, STYLE 1



## ABSOLUTE MAXIMUM RATINGS

Maximum Power Dissipation @ 25°C	19 Watts
<b>Maximum Voltage and Current</b>	
BVces Collector to Emitter Voltage	50 Volts
BVebo Emitter to Base Voltage	3.5 Volts
Ic Collector Current	1.0 Amps
<b>Maximum Temperatures</b>	
Storage Temperature	- 65 to + 200°C
Operating Junction Temperature	+ 200°C

## ELECTRICAL CHARACTERISTICS @ 25 °C

SYMBOL	CHARACTERISTICS	TEST CONDITIONS	MIN	TYP	MAX	UNITS
<b>Pout</b>	Power Out	Freq = 1400 MHz	6			Watts
<b>Pg</b>	Power Gain	Vcc = 28 Volts	7.0	7.5		dB
<b>ηc</b>	Collector Efficiency	Pin = 1.2 Watts		40		%
<b>VSWR<sup>1</sup></b>	Load Mismatch Tolerance	Pulse Width = CW			10:1	

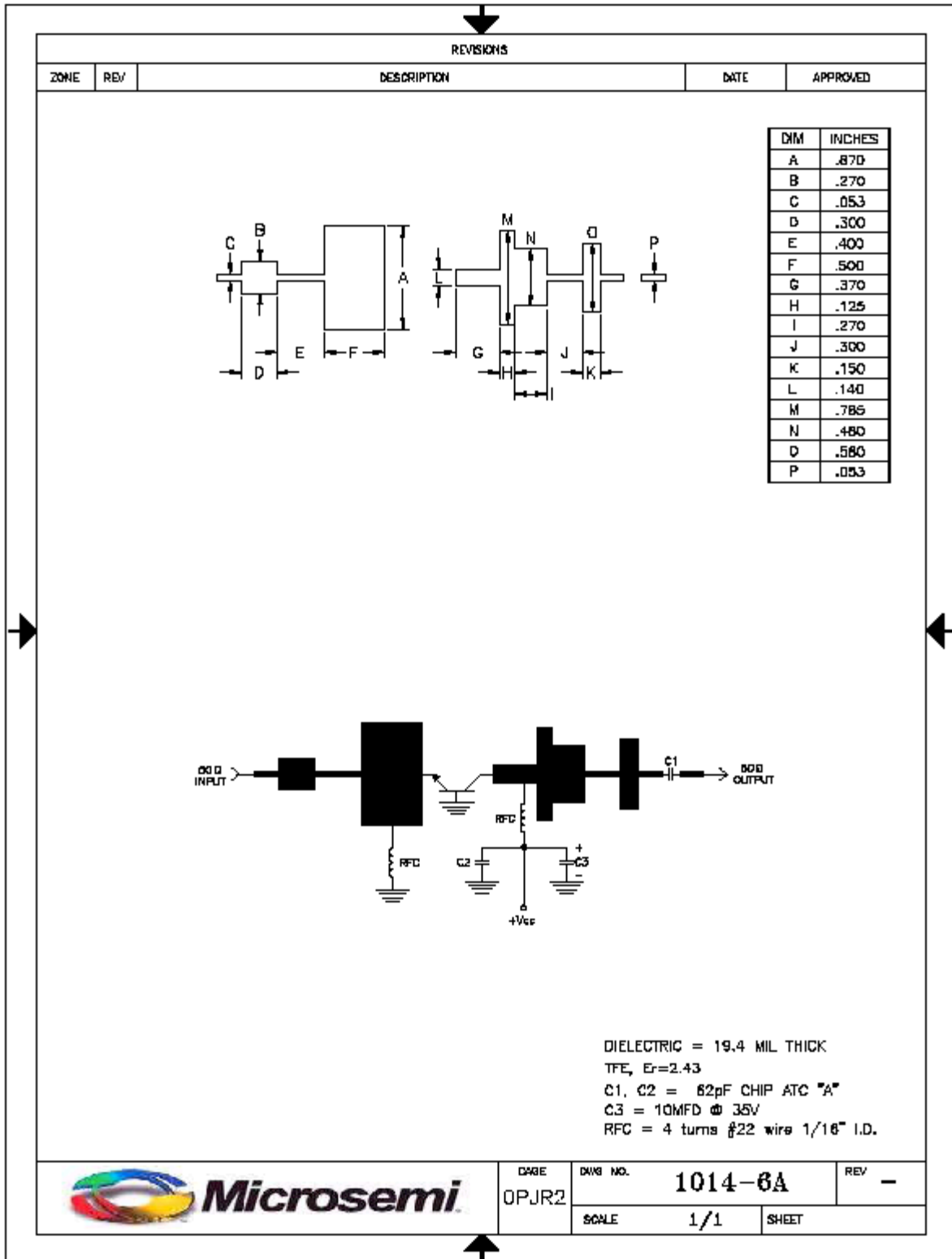
## FUNCTIONAL CHARACTERISTICS @ 25°C

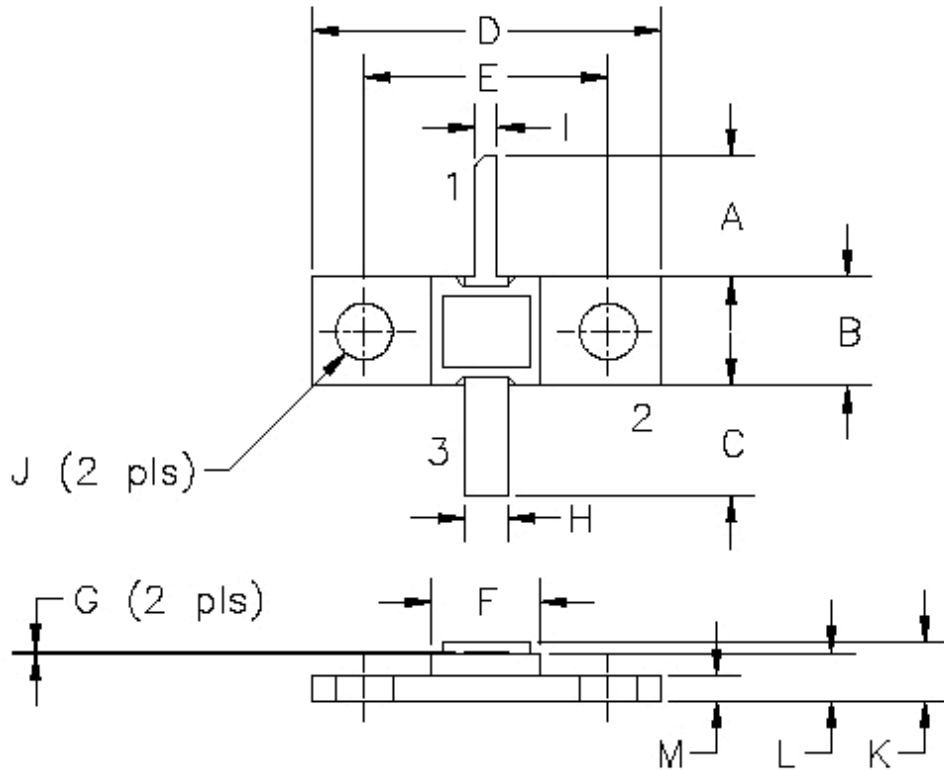
<b>Bvces</b>	Collector to Emitter Breakdown	Ic = 25 mA	50			Volts
<b>BVebo</b>	Emitter to Base Breakdown	Ie = 3 mA			3.5	Volts
<b>θjc<sup>1</sup></b>	Thermal Resistance				9.0	°C/W



# 1014-6A

## Test Circuit





DIM	MILLIMETER	±TOL	INCHES	±TOL
A	9.53	.64	.375	.025
B	6.35	.13	.250	.005
C	9.53	.64	.375	.025
D	20.83	.25	.820	.010
E	14.48	.13	.570	.005
F	6.35	.13	.250	.005
G	0.10	.05	.004	.002
H	2.54	.13	.100	.005
I	1.27	.13	.050	.005
J	3.30 DIA	.13	.130 DIA	.005
K	3.43	.25	.135	.010
L	2.79	.20	.110	.008
M	1.52	.13	.060	.005

**STYLE 1:**  
 PIN 1 = COLLECTOR  
 2 = BASE  
 3 = EMITTER

**STYLE 2:**  
 PIN 1 = COLLECTOR  
 2 = EMITTER  
 3 = BASE

