mail

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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140 COMMERCE DRIVE MONTGOMERYVILLE, PA 18936-1013 PHONE: (215) 631-9840 FAX: (215) 631-9855

MS1409

RF & MICROWAVE TRANSISTOR VHF COMMUNICATIONS

)HDWXUHV

- 175 MHz
- 28 VOLTS
- P_{OUT} = 2.5 W
- $G_P = 10 \text{ dB MINIMUM}$
- COMMON EMITTER CONFIGURATION

'(6&5,37,21:

The MS1409 is a NPN silicon transistor designed for high power gain VHF and UHF communication applications. Gold metalization and diffused emitter ballast resistors provide superior long term reliability.



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Symbol	Parameter	Value	Unit
V _{CBO}	Collector-base Voltage	65	V
V _{CEO}	Collector-emitter Voltage	40	V
V _{EBO}	Emitter-base Voltage	4.0	V
P _{DISS}	Total Power Dissipation	7.0	W
Ι _C	Collector Peak Current	1.0	A
TJ	Junction Temperature	200	°C
T _{STG}	Storage Temperature	-65 to 200	°C

7KHUPDO 'DWD

	-		
$R_{\text{TH}(J\text{-}\text{CASE})}$	Thermal Resistance Junction-case	25	°C/W

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MS1409

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Symbol	Test Conditions	Value			Unit		
		Min.	Тур.	Max.	Unit		
BVebo	$I_{E} = 0.10 \text{ mA}$	$I_{\rm C} = 0 \rm mA$		4.0			V
BVcbo	$I_{\rm C} = 0.3 {\rm mA}$	$I_E = 0 \text{ mA}$		65			V
BVceo	$I_{\rm C} = 3 \text{ mA}$	$I_{\rm S} = 0 \rm mA$		40			V
Iceo	$V_{CE} = 30 V$					0.1	mA
H _{FE}	$V_{CE} = 5 V$	I _C = 100 mA		20		200	В

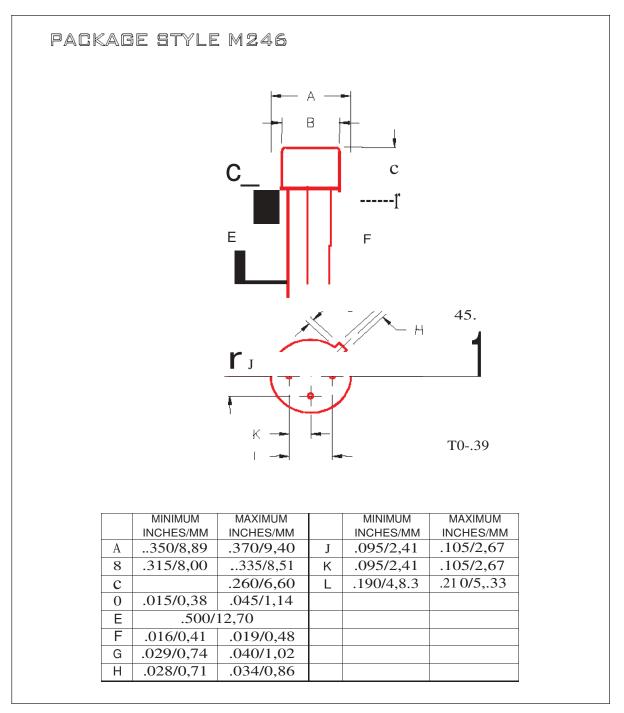
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Symbol	Test Conditions		Value			Unit	
Symbol			Min.	Тур.	Max.	Onit	
P _{OUT}	f =175 MHz	$P_{IN} = 0.25W$	$V_{CC} = 28V$	2.5			W
η _c	f =175 MHz	$P_{IN} = 0.25W$	$V_{CC} = 28V$	50			%
G _P	f =175 MHz	$P_{IN} = 0.25W$	$V_{CC} = 28V$	10			dB
C _{OB}	f =1.0MHz	V_{CB} = 30V				10	pf



MS1409

PACKAGE MECHANICAL DATA



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