2N3414 MPS3414 2N3415 MPS3415 2N3416 MPS3416 2N3417 MPS3417 SILICON

**NPN TRANSISTORS** 



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## **DESCRIPTION:**

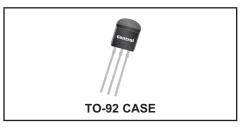
The CENTRAL SEMICONDUCTOR 2N3414, MPS3414 series devices are silicon NPN transistors, manufactured by the epitaxial planar process, designed for general purpose and switching applications.

0.85

225

540





MAXIMUM RATINGS: (T <sub>A</sub> =25°C unless otherwise noted) SYMBOL Collector-Base Voltage V <sub>CBO</sub>		2N3414 2N3415 MPS3414 <u>MPS3415</u> 25	2N3416 2N3417 MPS3416 <u>MPS3417</u> 50	UNITS V	
Collector-Emitter Voltage		VCEO	25	50	V
Emitter-Base Voltage		V <sub>EBO</sub>	5.0		V
Continuous Collector Current		$I_{C}$	500		mA
Power Dissipation		$P_{D}$	625		mW
Power Dissipation (T <sub>C</sub> =25°C)		$P_{D}$	1.5		W
Operating and	Storage Junction Temperature	T <sub>J</sub> , T <sub>stg</sub>	-65 to	+150	°C
ELECTRICAL CHARACTERISTICS: (T <sub>A</sub> =25°C unit of the symbol of test conditions)  I <sub>CBO</sub> V <sub>CB</sub> =Rated V <sub>CBO</sub>		nless otherwise	e noted) MIN	<b>MAX</b> 100	<b>UNITS</b> nA
I <sub>EBO</sub>	V <sub>EB</sub> =5.0V			100	nA
BVCEO	I <sub>C</sub> =10mA (3414, 3415)		25		V
$BV_{CEO}$	I <sub>C</sub> =10mA (3416, 3417)		50		V
V <sub>CE(SAT)</sub>	$I_C$ =50mA, $I_B$ =3.0mA			0.3	V

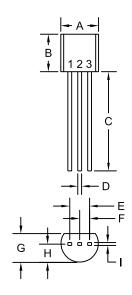
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2N3414 MPS3414 2N3415 MPS3415 2N3416 MPS3416 2N3417 MPS3417

SILICON NPN TRANSISTORS



## **TO-92 CASE - MECHANICAL OUTLINE**



INC MIN 0.175 0.170	MAX 0.205	MILLIM MIN 4.45	ETERS MAX 5,21	
0.175	0.205			
		4.45	5 21	
0.170			0,21	
	0.210	4,32	5,33	
0.500	-	12.70	-	
0.016	0.022	0.41	0.56	
0.100		2.54		
0.050		1.27		
0.125	0.165	3.18	4.19	
0.080	0.105	2.03	2.67	
0.015		0.38		
	0.1 0.0 0.125 0.080	0.100 0.050 0.125 0.165 0.080 0.105	$\begin{array}{c cccc} 0.100 & 2.000 & 2.$	

TO-92 (REV: R1)

#### 2N3414 THRU 2N3417 LEAD CODE:

- 1) Emitter
- 2) Collector
- 3) Base

R1

#### **MPS3414 THRU MPS3417** LEAD CODE:

- 1) Emitter
- 2) Base 3) Collector

#### MARKING:

FULL PART NUMBER



### **OUTSTANDING SUPPORT AND SUPERIOR SERVICES**

#### **PRODUCT SUPPORT**

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- · Inventory bonding
- · Consolidated shipping options

- Custom bar coding for shipments
- · Custom product packing

#### **DESIGNER SUPPORT/SERVICES**

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2<sup>nd</sup> day air)
- · Online technical data and parametric search
- SPICE models
- · Custom electrical curves
- · Environmental regulation compliance
- · Customer specific screening
- · Up-screening capabilities

- Special wafer diffusions
- · PbSn plating options
- · Package details
- · Application notes
- · Application and design sample kits
- Custom product and package development

#### REQUESTING PRODUCT PLATING

- 1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
- 2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

## **CONTACT US**

#### Corporate Headquarters & Customer Support Team

Central Semiconductor Corp. 145 Adams Avenue Hauppauge, NY 11788 USA Main Tel: (631) 435-1110 Main Fax: (631) 435-1824

Support Team Fax: (631) 435-3388

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