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

NPN TRANSISTORS



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DESCRIPTION:

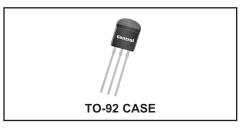
The CENTRAL SEMICONDUCTOR 2N3414, MPS3414 series devices are silicon NPN transistors, manufactured by the epitaxial planar process, designed for general purpose and switching applications.

0.85

225

540





MAXIMUM RATINGS: (T _A =25°C unless otherwise noted) SYMBOL Collector-Base Voltage V _{CBO}		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 _{EBO}	5.0		V
Continuous Collector Current		I_{C}	500		mA
Power Dissipation		P_{D}	625		mW
Power Dissipation (T _C =25°C)		P_{D}	1.5		W
Operating and	Storage Junction Temperature	T _J , T _{stg}	-65 to	+150	°C
ELECTRICAL CHARACTERISTICS: (T _A =25°C unit of the symbol of test conditions) I _{CBO} V _{CB} =Rated V _{CBO}		nless otherwise	e noted) MIN	MAX 100	UNITS nA
I _{EBO}	V _{EB} =5.0V			100	nA
BVCEO	I _C =10mA (3414, 3415)		25		V
BV_{CEO}	I _C =10mA (3416, 3417)		50		V
V _{CE(SAT)}	I_C =50mA, I_B =3.0mA			0.3	V

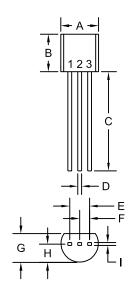
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2N3414 MPS3414 2N3415 MPS3415 2N3416 MPS3416 2N3417 MPS3417

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 (2nd 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

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2N2369ADCSM 2N5769 2SC2412KT146S 2SC5490A-TL-H 2SD1816S-TL-E 2SD1816T-TL-E CMXT2207 TR CPH6501-TL-E
MCH4021-TL-E US6T6TR NJL0281DG 732314D CMXT3906 TR CPH3121-TL-E CPH6021-TL-H 873787E IMZ2AT108 UMX21NTR
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