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

SILICON **NPN TRANSISTORS**

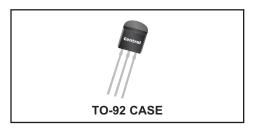


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DESCRIPTION:

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

MARKING: FULL PART NUMBER



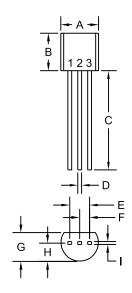
MAXIMUM R	ATINGS: (T _A =25°C unless otherwise	e noted)	2N3414 2N3415 MPS3414 MPS3415	2N3416 2N3417 MPS3416 MPS3417	UNITS
Collector-Base Voltage		V _{CBO}	25	50	V
Collector-Emitter Voltage		V_{CEO}	25	50	V
Emitter-Base Voltage		V_{EBO}	5.0		V
Continuous Collector Current		IC	500		mA
Power Dissipation		P_{D}	62	625	
Power Dissipation (T _C =25°C)		P_{D}	1.	1.5	
Operating and Storage Junction Temperature		T _J , T _{stg}	-65 to +150		°C
ELECTRICAL	_ CHARACTERISTICS: (T _A =25°C u	e noted)			
SYMBOL	TEST CONDITIONS		MIN	MAX	UNITS
ICBO	V _{CB} =Rated V _{CBO}			100	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
V _{BE} (SAT)	I _C =50mA, I _B =3.0mA			0.85	V
h _{FE}	V _{CE} =4.5V, I _C =2.0mA (3414, 3416))	75	225	
h _{FE}	V _{CE} =4.5V, I _C =2.0mA (3415, 3417)		180	540	
h _{fe}	V _{CE} =4.5V, I _C =2.0mA, f=1.0kHz (3414, 3416)		75		
h _{fe}	V_{CE} =4.5V, I_{C} =2.0mA, f=1.0kHz (3	415, 3417)	180		

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

SILICON NPN TRANSISTORS



TO-92 CASE - MECHANICAL OUTLINE



DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
A (DIA)	0.175	0.205	4.45	5.21			
В	0.170	0.210	4.32	5.33			
С	0.500	-	12.70	-			
D	0.016	0.022	0.41	0.56			
Е	0,100		2,54				
F	0.050		1.27				
G	0.125	0.165	3.18	4.19			
Н	0.080	0.105	2.03	2.67			
	0.015		0.38				

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 guick 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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