

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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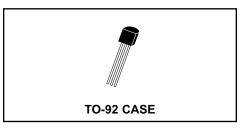






MPSH81

PNP SILICON RF TRANSISTOR





DESCRIPTION:

The CENTRAL SEMICONDUCTOR MPSH81 is a PNP Silicon Transistor designed for general purpose RF amplifier applications.

MARKING: FULL PART NUMBER

| MAXIMUM RATINGS: (T _A =25°C) | SYMBOL | | UNITS |
|--|-----------------------------------|-------------|-------|
| Collector-Base Voltage | V_{CBO} | 20 | V |
| Collector-Emitter Voltage | V_{CEO} | 20 | V |
| Emitter-Base Voltage | V_{EBO} | 3.0 | V |
| Continuous Collector Current | IC | 50 | mA |
| Power Dissipation | P_{D} | 350 | mW |
| Operating and Storage Junction Temperature | T _J , T _{stg} | -65 to +150 | °C |
| Thermal Resistance | ΘJC | 357 | °C/W |

ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted)

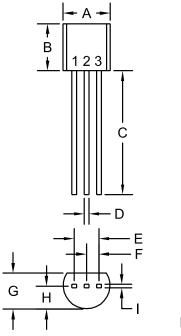
| SYMBOL | TEST CONDITIONS | MIN | MAX | UNITS |
|----------------------|---|-----|------|-------|
| I _{CBO} | V _{CB} =10V | | 100 | nA |
| I _{EBO} | V _{EB} =2.0V | | 100 | nA |
| BV_{CBO} | I _C =10μA | 20 | | V |
| BV _{CEO} | I _C =1.0mA | 20 | | V |
| BV_{EBO} | I _E =10μA | 3.0 | | V |
| V _{CE(SAT)} | I _C =5.0mA, I _B =0.5mA | | 0.5 | V |
| V _{BE(ON)} | V _{CE} =10V, I _C =5.0mA | | 0.9 | V |
| h _{FE} | V _{CE} =10V, I _C =5.0mA | 60 | | |
| f_T | V_{CE} =10V, I_{C} =5.0mA, f=100MHz | 600 | | MHz |
| C _{ob} | V _{CB} =10V, I _E =0, f=1.0MHz | | 0.85 | pF |
| C _{ib} | V _{CB} =10V, I _B =0, f=1.0MHz | | 0.65 | pF |



MPSH81

PNP SILICON RF TRANSISTOR

TO-92 CASE - MECHANICAL OUTLINE



R1

| 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 |
| E | 0.1 | 00 | 2. | 54 |
| F | 0.0 |)50 | 1.: | 27 |
| G | 0.125 | 0.165 | 3.18 | 4.19 |
| Н | 0.080 | 0.105 | 2.03 | 2.67 |
| | 0.0 | 15 | 0. | 38 |

TO-92 (REV: R1)

LEAD CODE:

- 1) BASE
- 2) EMITTER
- 3) COLLECTOR

MARKING: FULL PART NUMBER

R0 (25-April 2008)

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).
- 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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For the latest version of Central Semiconductor's **LIMITATIONS AND DAMAGES DISCLAIMER**, which is part of Central's Standard Terms and Conditions of sale, visit: www.centralsemi.com/terms

www.centralsemi.com (001)



Product End of Life Notification

| PDN ID: | PDN01102 |
|--------------------|----------|
| Notification Date: | 8/09/18 |
| Last Buy Date: | 2/09/19 |
| Last Shipment Date | 8/09/19 |

Summary: The CP681 RF transistor wafer process is discontinued and now classified as End of Life (EOL).

Although Central Semiconductor Corp. makes every effort to continue to produce devices that have been proclaimed EOL (End of Life) by other manufacturers, it is an accepted industry practice to discontinue certain devices when customer demand falls below a minimum level of sustainability. Accordingly, the following product(s) have been transitioned to End of Life status as part of Central's ongoing Product Management Process. Any replacement products are noted below. The effective date for placing last purchase orders will be six (6) months from the date of this notice and twelve (12) months from the notice date for final shipments, and minimum order quantities may apply. The last purchase and shipment dates may be extended if inventory is available.

| Central Part Number | Replacement |
|---------------------|-----------------|
| CMPTH81 BK | N/A, Stock Only |
| CMPTH81 TR | N/A, Stock Only |
| CP681-MPSH81-CM | N/A, Stock Only |
| CP681-MPSH81-CT | N/A, Stock Only |
| CP681-MPSH81-CT20 | N/A, Stock Only |
| MPSH81 | N/A, Stock Only |
| MPSH81 TRE | N/A, Stock Only |

Central would be happy to assist you by providing additional information or technical data to help locate an alternate source if we have no replacement available. Please email your requests to engineering@centralsemi.com.

DISCLAIMER: This End of Life (EOL) notification is in accordance with JEDEC standard JESD48 - Product Discontinuance. Central Semiconductor Corp. will make every effort to offer life-time buy (LTB) opportunities and/or offer replacement devices to existing customers for discontinued devices, however, one or both may not be possible for all devices. Please contact your local Central Semiconductor sales representative for LTB opportunities/additional information.

CCC785 REV 002