

M.C.C.

Micro Commercial Components



Micro Commercial Components
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2SC4115S-Q
2SC4115S-R
2SC4115S-S

Features

- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Power dissipation: $P_{CM} = 0.3W(T_{amb}=25^{\circ}C)$
- Collector current: $I_{CM} = 3A$
- Collector-base voltage: $V_{(BR)CBO} = 40V$
- Operating and storage junction temperature range
 $T_J, T_{stg}: -55^{\circ}C$ to $+150^{\circ}C$

• Halogen free available upon request by adding suffix "-HF"

Electrical Characteristics @ 25°C Unless Otherwise Specified

| Symbol | Parameter | Min | Typ | Max | Unit |
|---------------|--|-----|-----|-----|---------|
| V_{CEO} | Collector-Emitter Voltage ($I_C = -50 \mu A, I_E = 0$) | 20 | --- | --- | V |
| V_{CBO} | Collector-Base Voltage ($I_C = -1 \mu A, I_B = 0$) | 40 | --- | --- | V |
| V_{EBO} | Emitter-Base Voltage ($I_E = -50 \mu A, I_C = 0$) | 6.0 | --- | --- | V |
| I_{CBO} | Collector cut-off Current ($V_{CB} = -20V, I_E = 0$) | --- | --- | 0.1 | μA |
| I_{EBO} | Emitter cut-off Current ($V_{EB} = -5V, I_C = 0$) | --- | --- | 0.1 | μA |
| h_{FE} | DC current gain ($V_{CE} = -2V, I_C = -0.1A$) | 120 | --- | 560 | --- |
| $V_{CE(sat)}$ | Collector-Emitter Saturation Voltage ($I_C = -2A, I_B = -0.1A$) | --- | --- | 0.5 | V |
| f_T | Transition Frequency ($V_{CE} = 2.0Vdc, I_C = 0.5Adc$) | 200 | --- | --- | MHz |

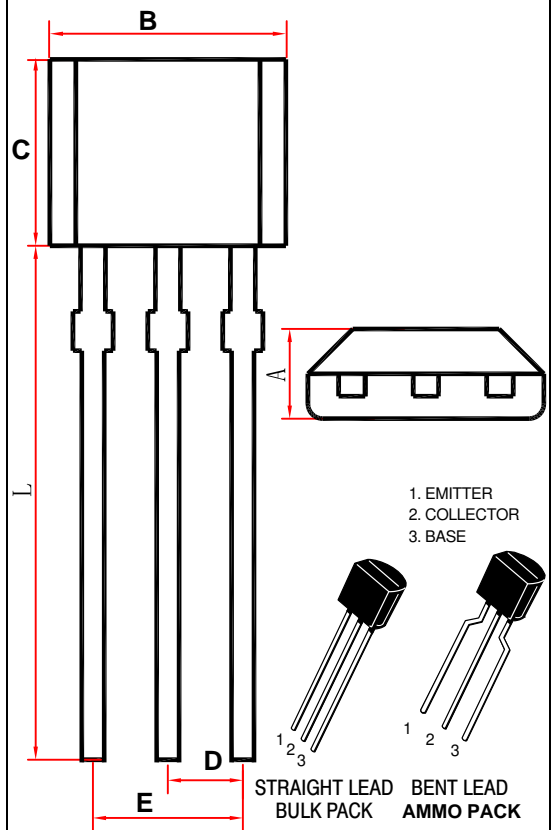
Measured Using Pulse Current

CLASSIFICATION OF h_{FE}

| Rank | Q | R | S |
|---------|---------|---------|---------|
| Range | 120-270 | 180-390 | 270-560 |
| Marking | C4115 | C4115 | C4115 |

NPN
Plastic-Encapsulate
Transistors

TO-92S



| DIM | INCHES | | MM | | NOTE |
|-----|--------|------|-------|-------|---------------|
| | MIN | MAX | MIN | MAX | |
| A | .056 | .064 | 1.42 | 1.62 | |
| B | .154 | .161 | 3.90 | 4.10 | |
| C | .120 | .128 | 3.05 | 3.25 | |
| D | .050 | | 1.27 | | Straight Lead |
| | .086 | .110 | 2.20 | 2.80 | Bent Lead |
| E | .096 | | 2.44 | | Straight Lead |
| | .173 | .220 | 4.40 | 5.60 | Bent Lead |
| L | .594 | .610 | 15.10 | 15.50 | |

* For ammo packing detailed specification, click here to visit our website of product packaging for details.



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Ordering Information :

| Device | Packing |
|----------------|-----------------------------|
| Part Number-AP | Ammo Packing: 30Kpcs/Carton |
| Part Number-BP | Bulk: 100Kpcs/Carton |

Note : Adding "-HF" suffix for halogen free, eg. Part Number-AP-HF

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