

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

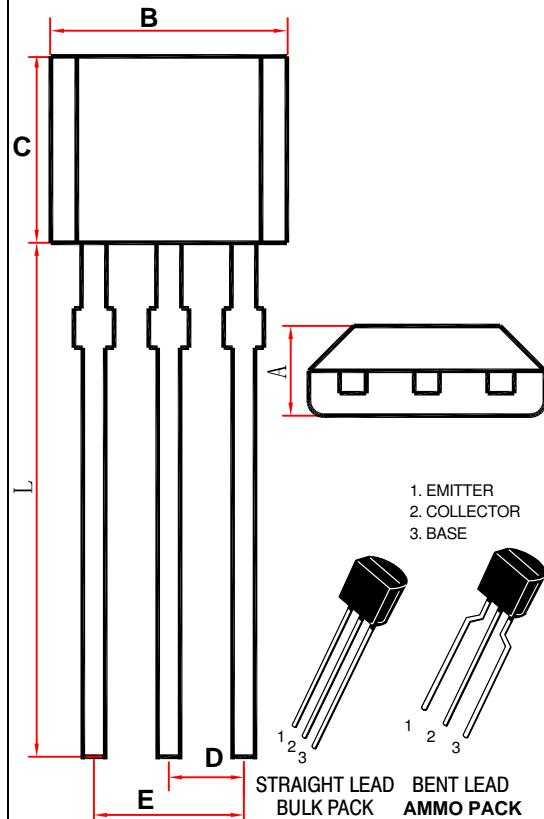
Measured Using Pulse Current

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



DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.056	.064	1.42	1.62	Straight Lead
	.154	.161	3.90	4.10	
B	.120	.128	3.05	3.25	Bent Lead
	.050	.058	1.27	1.35	
C	.086	.110	2.20	2.80	Straight Lead
	.096	.104	2.44	2.64	
D	.173	.220	4.40	5.60	Bent Lead
	.154	.161	3.90	4.10	
E	.594	.610	15.10	15.50	Ammo Pack
	.594	.610	15.10	15.50	

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

www.mccsemi.com



TM

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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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