



Micro Commercial Components

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**2SC4115S-Q**  
**2SC4115S-R**  
**2SC4115S-S**

## Features

- Case Material: Molded Plastic. UL Flammability Classification Rating 94-0 and MSL Rating 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  $+150^{\circ}C$

### 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	$\mu A$
$I_{EBO}$	Emitter cut-off Current ( $V_{EB} = -5V, I_C = 0$ )	---	---	0.1	$\mu A$
$h_{FE}$	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

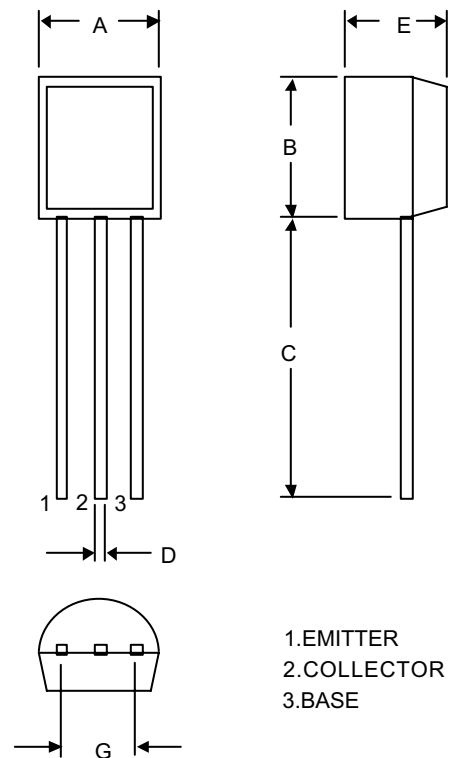
Measured Using Pulse Current

### CLASSIFICATION OF $h_{FE}$

Rank	Q	R	S
Range	120-270	180-390	270-560
Marking	4115Q	4115R	4115S

**NPN**  
**Plastic-Encapsulate**  
**Transistors**

TO-92S



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.16	---	4.00	---	
B	.12	---	3.00	---	
C	.59	---	15.00	---	
D	.02	---	0.45	---	
E	.08	---	2.00	---	
G	.20	---	5.00	---	



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## Ordering Information

Device	Packing
(Part Number)-BP	Bulk;1Kpcs/Bag

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