



**Micro Commercial Components**

Micro Commercial Components  
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**2SA1015-O  
 2SA1015-Y  
 2SA1015-GR**

**PNP Silicon  
 Plastic-Encapsulate  
 Transistor**

**Features**

- Capable of 0.4Watts of Power Dissipation.
- Collector-current 0.15A
- Collector-base Voltage 50V
- Operating and storage junction temperature range: -55°C to +150°C
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Marking:A1015

**Electrical Characteristics @ 25°C Unless Otherwise Specified**

Symbol	Parameter	Min	Max	Units
<b>OFF CHARACTERISTICS</b>				
$V_{(BR)CEO}$	Collector-Emmitter Breakdown Voltage ( $I_C=0.1mA_{dc}$ , $I_E=0$ )	50	---	Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ( $I_C=100\mu A_{dc}$ , $I_E=0$ )	50	---	Vdc
$I_{CBO}$	Collector Cutoff Current ( $V_{CB}=50V_{dc}$ , $I_E=0$ )	---	0.1	$\mu A_{dc}$
$I_{EBO}$	Emmitter Cutoff Current ( $V_{EB}=5.0V_{dc}$ , $I_C=0$ )	---	0.1	$\mu A_{dc}$

**ON CHARACTERISTICS**

$h_{FE}$	DC Current Gain ( $I_C=2.0mA_{dc}$ , $V_{CE}=6.0V_{dc}$ )	70	400	---
$V_{CE(sat)}$	Collector-Emmitter Saturation Voltage ( $I_C=100mA_{dc}$ , $I_E=10mA_{dc}$ )	---	0.3	Vdc
$V_{BE(sat)}$	Base-Emmitter Saturation Voltage ( $I_C=100mA_{dc}$ , $I_E=10mA_{dc}$ )	---	1.1	Vdc
$V_{BE}$	Base-Emmitter Voltage ( $I_E=310mA_{dc}$ )	---	1.45	Vdc

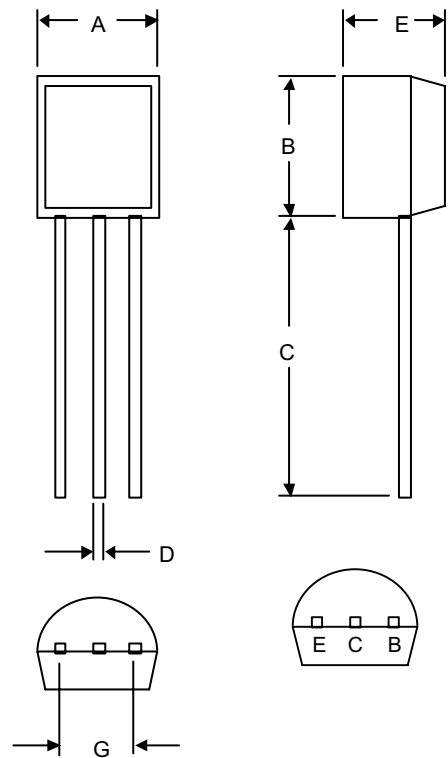
**SMALL-SIGNAL CHARACTERISTICS**

$f_T$	Transistor Frequency ( $I_C=1.0mA_{dc}$ , $V_{CE}=10V_{dc}$ , $f=30MHz$ )	80	---	MHz
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**CLASSIFICATION OF  $h_{FE}$  (1)**

Rank	O	Y	GR
Range	70-140	120-240	200-400

**TO-92**



**DIMENSIONS**

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.170	.190	4.33	4.83	
B	.170	.190	4.30	4.83	
C	.550	.590	13.97	14.97	
D	.010	.020	0.36	0.56	
E	.130	.160	3.30	3.96	
G	.010	.104	2.44	2.64	



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