



Micro Commercial Components



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

**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 +125°C
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking:A1015
- Lead Free Finish/Rohs Compliant ("P" Suffix designates Compliant. See ordering information)

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

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

**ON CHARACTERISTICS**

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

**SMALL-SIGNAL CHARACTERISTICS**

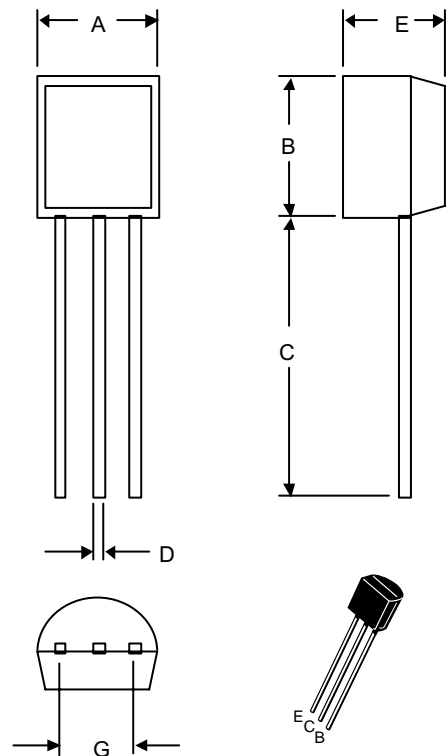
$f_T$	Transistor Frequency ( $I_C = 1.0mA$ , $V_{CE} = -10Vdc$ , $f = 30MHz$ )	80	---	MHz
$C_{OB}$	Collector Output Capacitance ( $V_{CB} = -10Vdc$ , $I_E = 0$ , $f = 1MHz$ )	---	7.0	pF
NF	Noise Figure ( $V_{CE} = -6Vdc$ , $I_C = -0.1mA$ , $f = 1KHz$ , $R_g = 10K$ )	---	6.0	dB

**CLASSIFICATION OF  $h_{FE}$  (1)**

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

**PNP Silicon  
Plastic-Encapsulate  
Transistor**

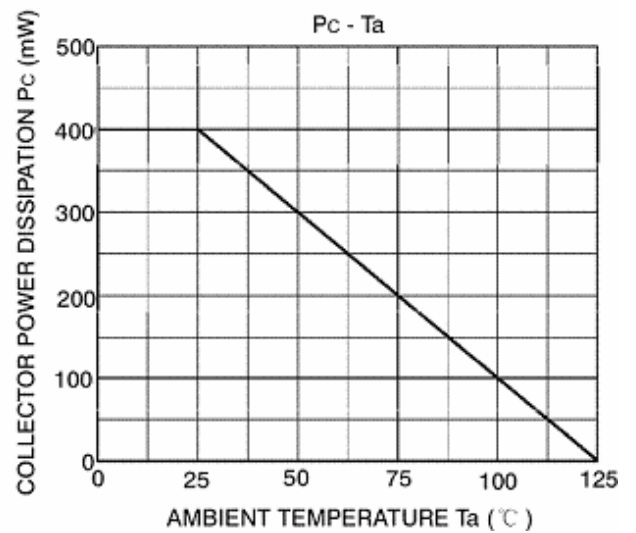
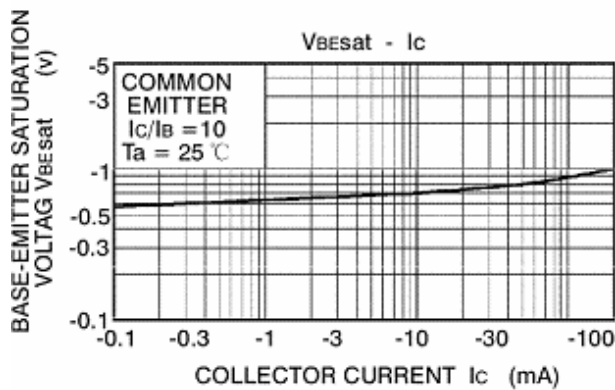
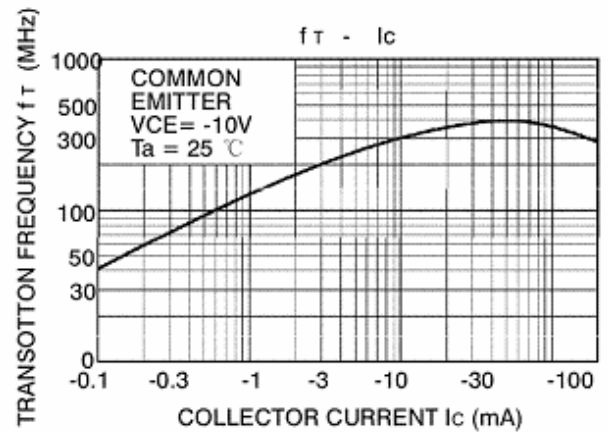
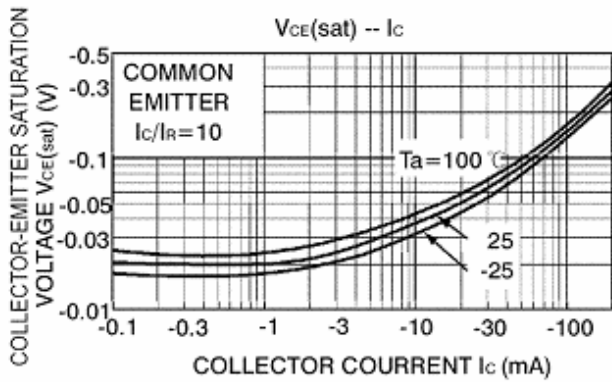
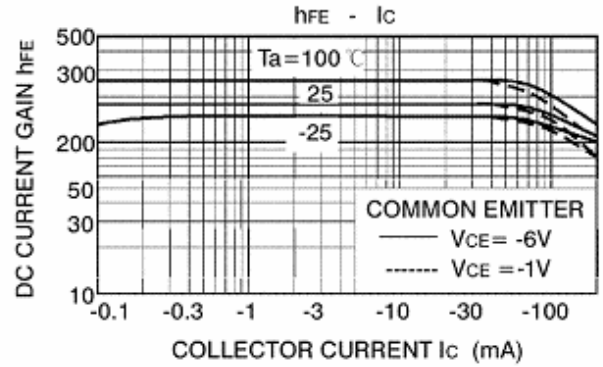
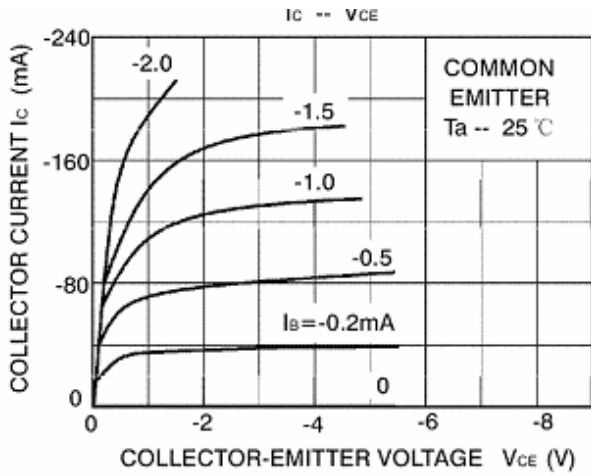
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DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.170	.190	4.33	4.83	
B	.170	.190	4.30	4.83	
C	.550	.590	13.97	14.97	
D	.010	.020	0.36	0.56	
E	.130	.160	3.30	3.96	
G	.096	.104	2.44	2.64	

# 2SA1015

## Typical Characteristics





TM

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## Ordering Information :

Device	Packing
Part Number-AP	Ammo Packing: 20Kpcs/Carton
Part Number-BP	Bulk: 100Kpcs/Carton

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