



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
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OFF CHARACTERISTICS

$V_{(BR)CEO}$	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 ($V_{CB} = -50V$, $I_E = 0$)	---	-0.1	μA
I_{EBO}	Emitter Cutoff Current ($V_{EB} = -5.0V$, $I_C = 0$)	---	-0.1	μA

ON CHARACTERISTICS

h_{FE}	DC Current Gain ($I_C = -2.0mA$, $V_{CE} = -6.0V$)	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

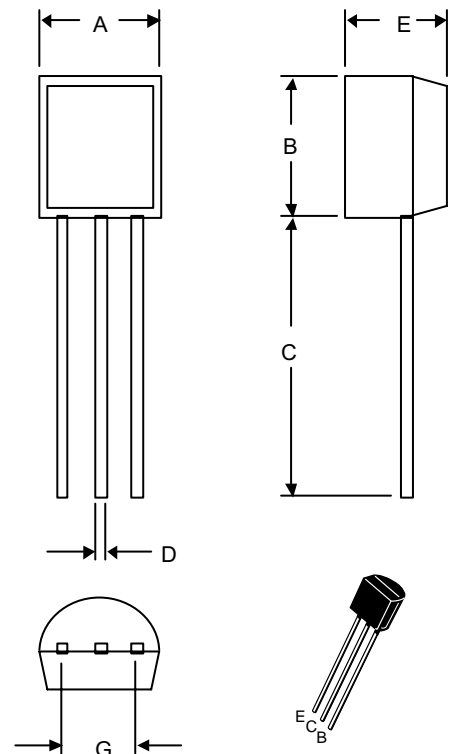
f_T	Transistor Frequency ($I_C = -1.0mA$, $V_{CE} = -10V$, $f = 30MHz$)	80	---	MHz
C_{OB}	Collector Output Capacitance ($V_{CB} = -10V$, $I_E = 0$, $f = 1MHz$)	---	7.0	pF
NF	Noise Figure ($V_{CE} = -6V$, $I_C = -0.1mA$, $f = 1KHz$, $R_g = 10K$)	---	6.0	dB

CLASSIFICATION OF h_{FE}

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

PNP Silicon
Plastic-Encapsulate
Transistor

TO-92



DIMENSIONS

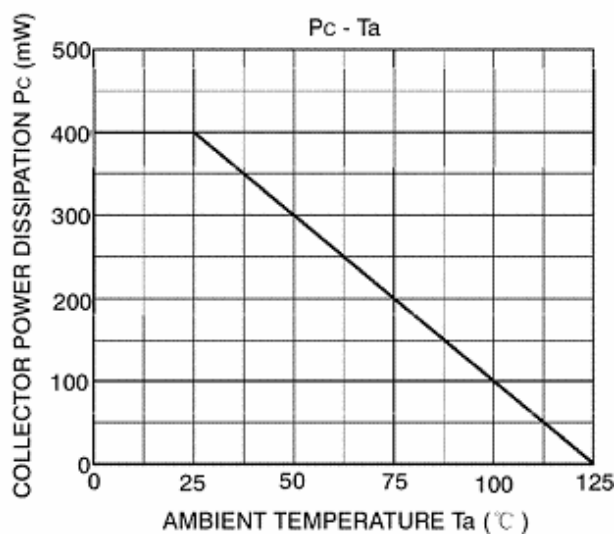
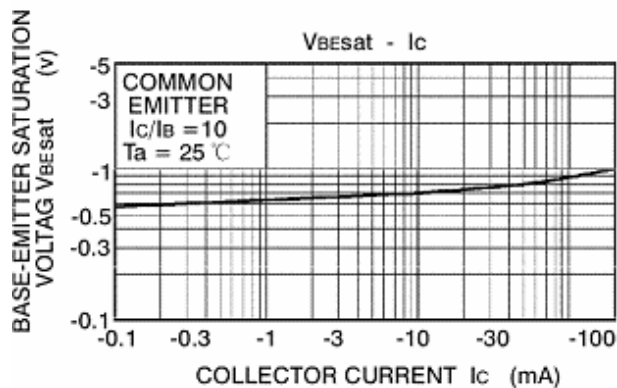
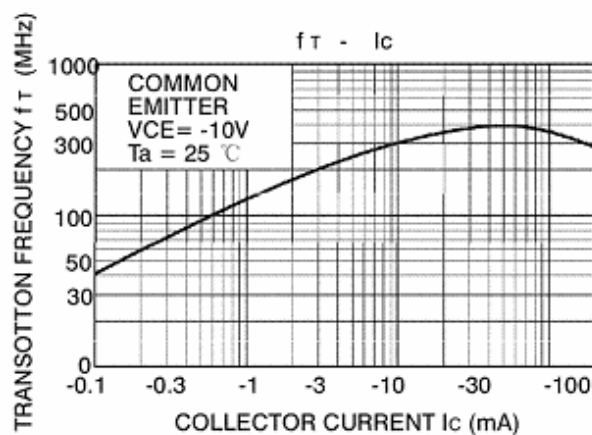
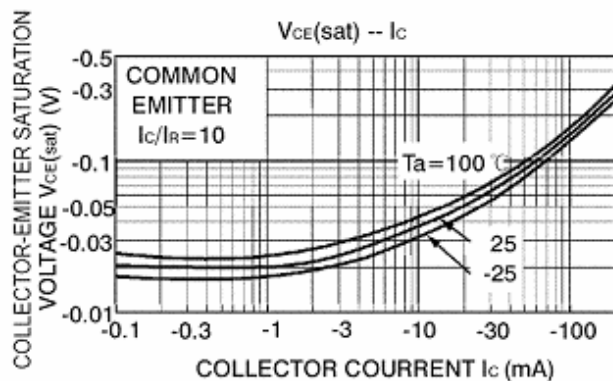
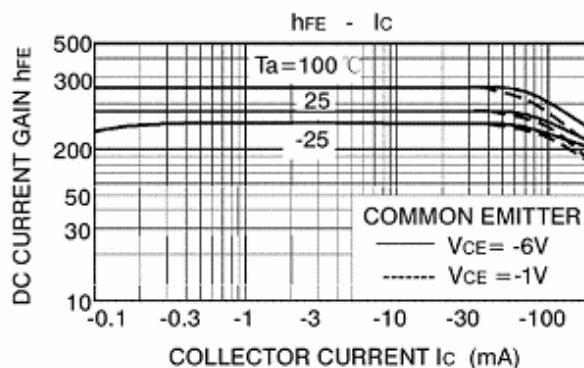
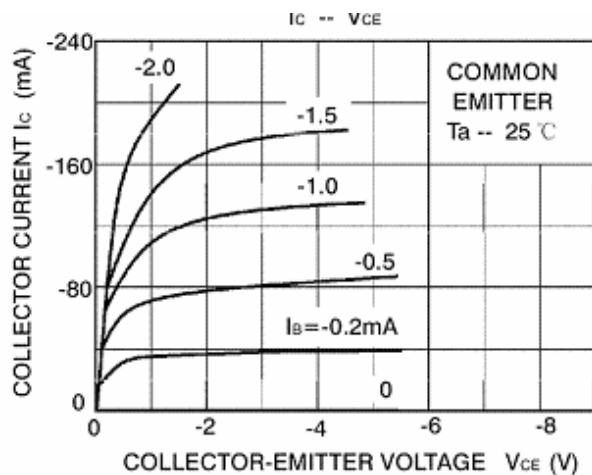
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.170	.190	4.33	4.83	
B	.170	.190	4.30	4.83	
C	.550	.590	13.97	14.97	
D	.010	.020	0.36	0.56	
E	.130	.160	3.30	3.96	
G	.096	.104	2.44	2.64	

2SA1015

Typical Characteristics

M.C.C.

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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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