

M.C.C.

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 +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)
- Halogen free available upon request by adding suffix "-HF"

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
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 ($I_E = -100\mu A, I_C = 0$)	-5	---	Vdc
I_{CBO}	Collector Cutoff Current ($V_{CB} = -50Vdc, I_E = 0$)	---	-0.1	μA
I_{EBO}	Emitter Cutoff Current ($V_{EB} = -5.0Vdc, I_C = 0$)	---	-0.1	μA

ON CHARACTERISTICS

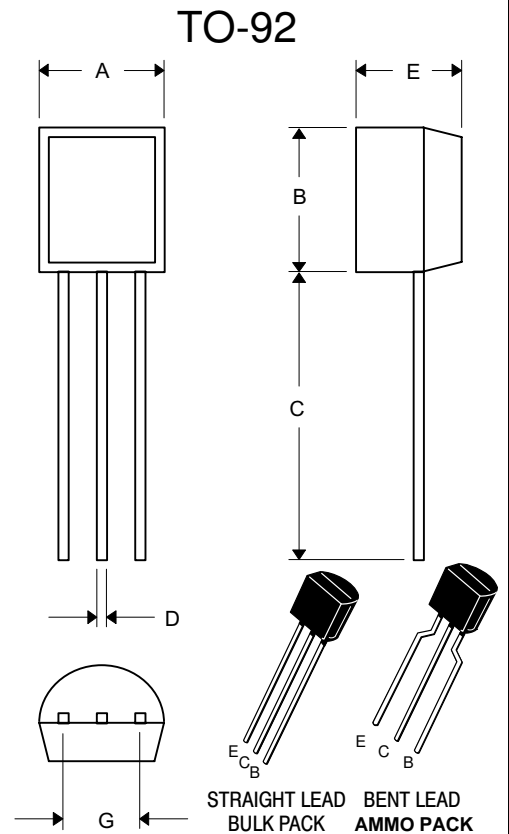
h_{FE}	DC Current Gain ($I_C = 2.0mA, V_{CE} = -6.0Vdc$)	70	400	---
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C = 100mA, I_E = -10mA$)	---	-0.3	Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage ($I_C = 100mA, I_E = -10mA$)	---	-1.1	Vdc

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



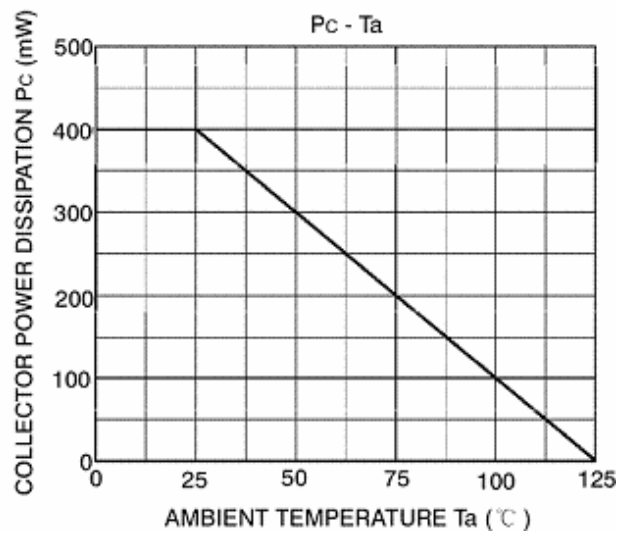
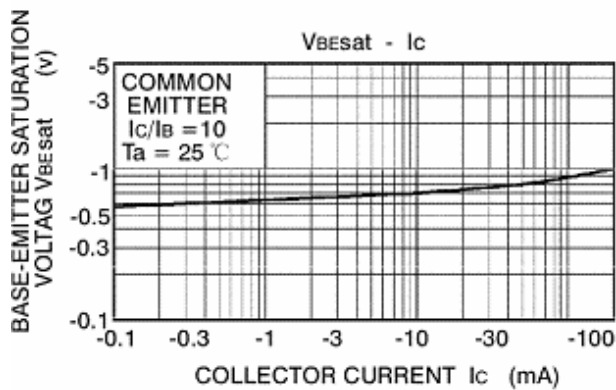
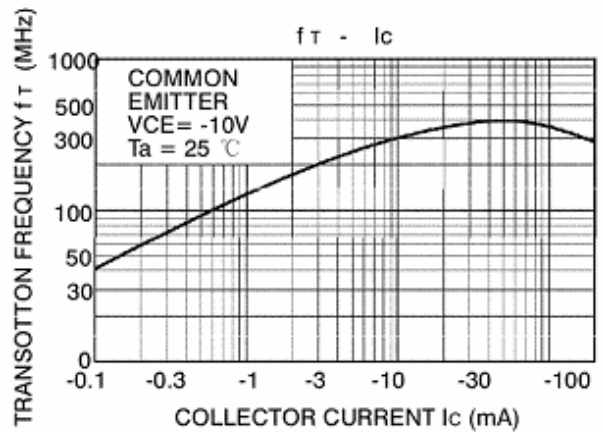
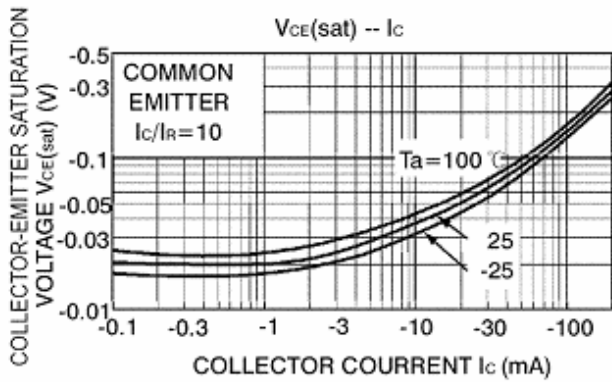
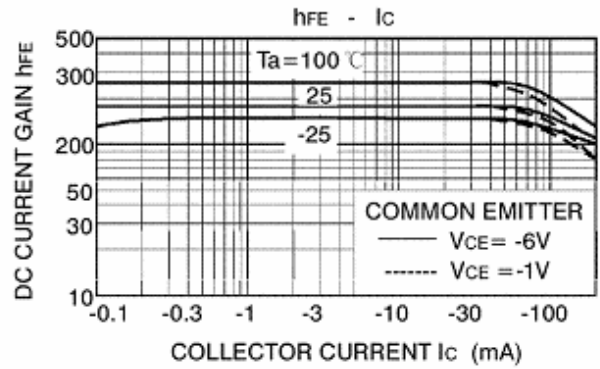
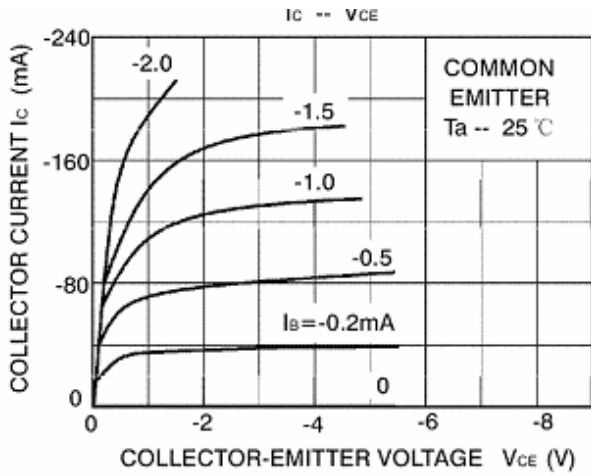
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.175	.185	4.45	4.70	
B	.175	.185	4.45	4.70	
C	.500	---	12.70	---	
D	.016	.020	0.41	0.63	
E	.135	.145	3.43	3.68	
G	.095	.105	2.42	2.67	Straight Lead
	.173	.220	4.40	5.60	Bent Lead

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

www.mccsemi.com

2SA1015

Typical Characteristics





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Ordering Information :

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

Note : Adding "-HF" suffix for halogen free, eg. Part Number-BP-HF

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