Micro Commercial Components

omponents
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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
- Moisure 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"

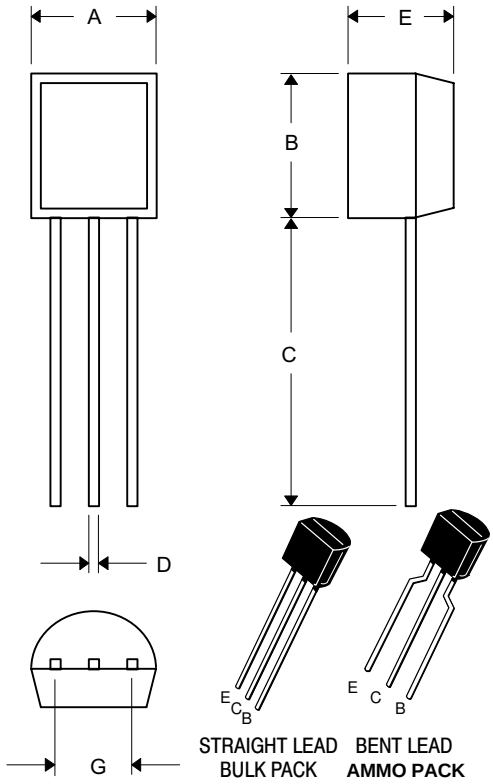
Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
OFF CHARACTERISTICS				
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage (I_C=-0.1mAdc, I_B=0)	-50	---	Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage (I_C=-100μAdc, I_E=0)	-50	---	Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage (I_E=-100μAdc, I_C=0)	-5	---	Vdc
I_{CBO}	Collector Cutoff Current (V_{CB}=-50Vdc, I_E=0)	---	-0.1	μAdc
I_{EBO}	Emitter Cutoff Current (V_{EB}=-5.0Vdc, I_C=0)	---	-0.1	μAdc
ON CHARACTERISTICS				
h_{FE}	DC Current Gain (I_C=-2.0mAdc, V_{CE}=-6.0Vdc)	70	400	---
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage (I_C=-100mAdc, I_B=-10mAdc)	---	-0.3	Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage (I_C=-100mAdc, I_B=-10mAdc)	---	-1.1	Vdc
SMALL-SIGNAL CHARACTERISTICS				
f_T	Transistor Frequency (I_C=-1.0mAdc, 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, Ic=-0.1mAdc,f=1KHz,Rg=10K)	---	6.0	dB

CLASSIFICATION OF $h_{FE(1)}$

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

TO-92

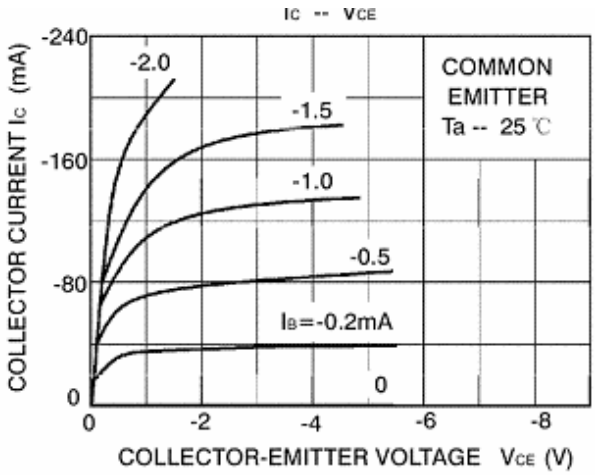


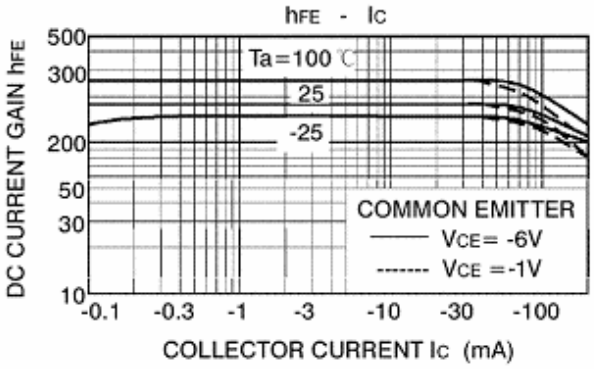
DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	.175	.185	4.45	4.70	
B	.175	.185	4.45	4.70	
C	.500	---	12.70	---	
D	.016	.020	0.41	0.63	
E	.135	.145	3.43	3.68	
G	.095	.105	2.42	2.67	Straight Lead
	.173	.220	4.40	5.60	Bent Lead

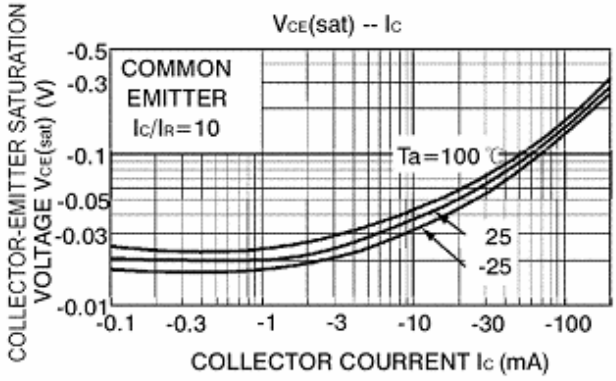
* For ammo packing detailed specification, click here to visit our website of product packaging for details.

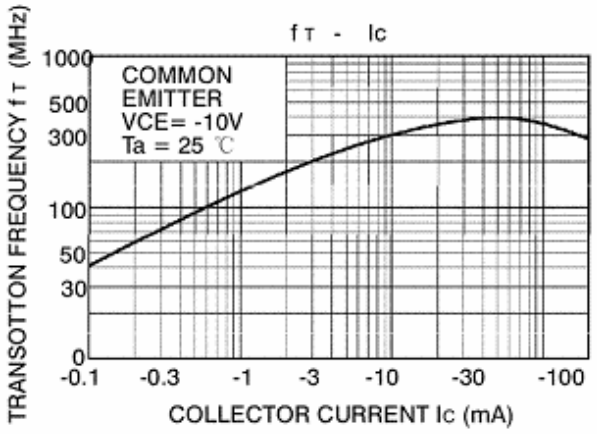
2SA1015
Typical Characteristics

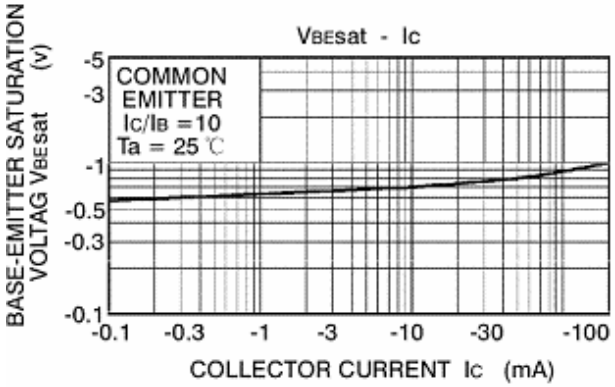
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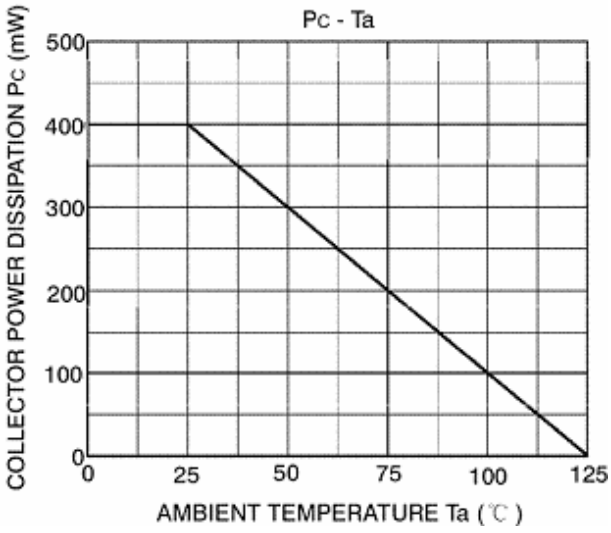












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Ordering Information :

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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