

## 2SA1015-Y-BP Datasheet



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DiGi Electronics Part Number 2SA1015-Y-BP-DG

Manufacturer Micro Commercial Co

Manufacturer Product Number 2SA1015-Y-BP

Description TRANS PNP 50V 0.15A T092

**Detailed Description** Bipolar (BJT) Transistor PNP 50 V 150 mA 80MHz 40

0 mW Through Hole TO-92



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## **Purchase and inquiry**

Manufacturer Product Number:	Manufacturer:
2SA1015-Y-BP	Micro Commercial Co
Series:	Product Status:
	Obsolete
Transistor Type:	Current - Collector (Ic) (Max):
PNP	150 mA
Voltage - Collector Emitter Breakdown (Max):	Vce Saturation (Max) @ lb, lc:
50 V	300mV @ 10mA, 100mA
Current - Collector Cutoff (Max):	DC Current Gain (hFE) (Min) @ lc, Vce:
100nA (ICBO)	120 @ 2mA, 6V
Power - Max:	Frequency - Transition:
400 mW	80MHz
Operating Temperature:	Mounting Type:
-55°C ~ 125°C (TJ)	Through Hole
Package / Case:	Supplier Device Package:
TO-226-3, TO-92-3 (TO-226AA)	TO-92
Base Product Number:	
2SA1015	

### **Environmental & Export classification**

RoHS Status:	Moisture Sensitivity Level (MSL):
RoHS Compliant	1 (Unlimited)
ECCN:	HTSUS:
EAR99	8541.21.0095





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
- 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 CHARAC	OFF CHARACTERISTICS				
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage -50 (h=-0.1mAdc, h=0)		Vdc		
V <sub>(BR)CBO</sub>	Collector-Base Breakdown Voltage (b=-100µAdc, b=0)	-50		Vdc	
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage (=-100µAdc, l <sub>c</sub> =0)	-5		Vdc	
Сво	Collector Cutoff Current (V <sub>CB</sub> =-50Vdc, I <sub>E</sub> =0)		-0.1	μAdc	
lево	Emitter Cutoff Current (V <sub>EB</sub> =-5.0Vdc, I <sub>C</sub> =0)		-0.1	μAdc	

### **ON CHARACTERISTICS**

h <sub>FE</sub>	DC Current Gain	70	400	
	(├=-2.0mAdc, V <sub>CE</sub> =-6.0Vdc)			
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage		-0.3	Vdc
	(├=-100mAdc, ├=-10mAdc)			
$V_{BE(sat)}$	Base-Emitter Saturation Voltage		-1.1	Vdc
	(k=-100mAdc, k=-10mAdc)			

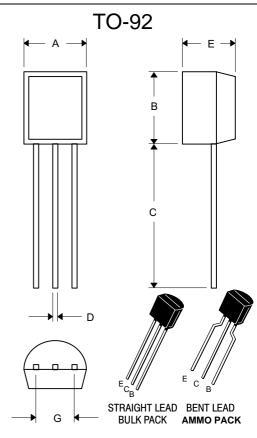
### **SMALL-SIGNAL CHARACTERISTICS**

f⊤	Transistor Frequency	80		MHz
	$(I_C=-1.0 \text{mAdc}, V_{CE}=-10 \text{Vdc}, f=30 \text{MHz})$	60		IVI⊓∠
Сов	Collector Output Capacitance		7.0	pF
	(V <sub>CB</sub> =-10Vdc, I <sub>E</sub> =0,f=1MHz)			
NF	Noise Figure		6.0	dB
	(V <sub>CE</sub> =-6Vdc, Ic=-0.1mAdc,f=1KHz,Rg=10K)			

### **CLASSIFICATION OF HELD**

Rank	0	Υ	GR	
Range	70-140	120-240	200-400	

# PNP Silicon Plastic-Encapsulate Transistor



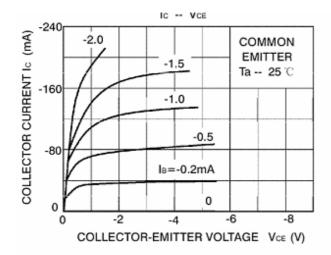
DIMENSIONS					
	INCHES		INCHES MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.175	.185	4.45	4.70	
В	.175	.185	4.45	4.70	
С	.500	-	12.70		
D	.016	.020	0.41	0.63	
Е	.135	.145	3.43	3.68	
G	.095	.105	2.42	2.67	Straight Lead
G	.173	.220	4.40	5.60	Bent Lead

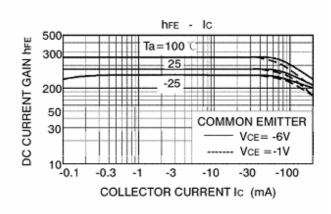
<sup>\*</sup> For ammo packing detailed specification, click here to visit our website of product packaging for details.

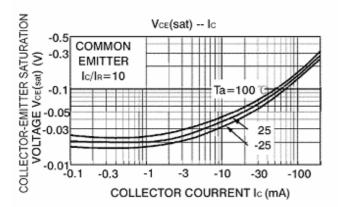
## 2SA1015 Typical Characteristics

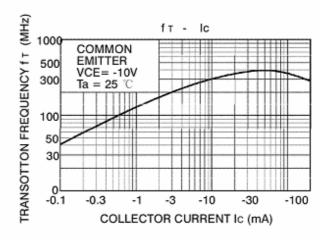


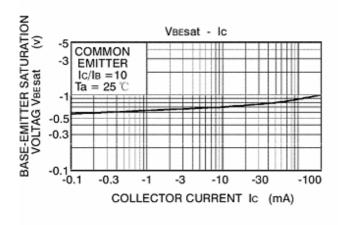
**Micro Commercial Components** 

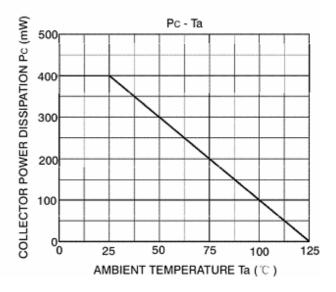














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### **Ordering Information:**

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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