



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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# 2SC945-Y 2SC945-GR

# **Features**

- Capable of 0.4Watts of Power Dissipation.
- Collector-current 0.15A
- Collector-base Voltage 60V
- Operating and storage junction temperature range: -55°C to +150°C
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Lead Free Finish/Rohs Compliant ("P"Suffix designates RoHS 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 CHARA	OFF CHARACTERISTICS				
V <sub>(BR)CEO</sub>	Collector-Emitter Breakdown Voltage (I <sub>C</sub> =0.1mAdc, I <sub>B</sub> =0)	50		Vdc	
V <sub>(BR)CBO</sub>	Collector-Base Breakdown Voltage (I <sub>C</sub> =1000uAdc, I <sub>E</sub> =0)	60		Vdc	
V <sub>(BR)EBO</sub>	Emitter-Base Breakdown Voltage (I <sub>E</sub> =100uAdc, I <sub>C</sub> =0)	5.0		Vdc	
I <sub>CBO</sub>	Collector Cutoff Current (V <sub>CB</sub> =60Vdc, ½=0Adc)		0.1	uAdc	
ber	Collector Cutoff Current (V <sub>CE</sub> =55Vdc,R=10M OHM)		0.1	uAdc	
I <sub>EBO</sub>	Emitter Cutoff Current (V <sub>EB</sub> =5.0Vdc, Ł=0Adc)		0.1	uAdc	

## ON CHARACTERISTICS

h <sub>FE(1)</sub>	DC Current Gain			
	(b=1.0mAdc, V <sub>CE</sub> =6.0Vdc)	120	400	
h <sub>FE(2)</sub>	DC Current Gain			
	(I <sub>C</sub> =0.1mAdc, V <sub>CE</sub> =6.0Vdc)	40		
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage			
	(I <sub>c</sub> =100mAdc, l <sub>B</sub> =10mAdc)		0.3	Vdc
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage			
	(I <sub>c</sub> =100mAdc, l <sub>B</sub> =10mAdc)		1.0	Vdc
$V_{BE}$	Base-Emitter Voltage			
	(I <sub>E</sub> =310mAdc)		1.4	Vdc

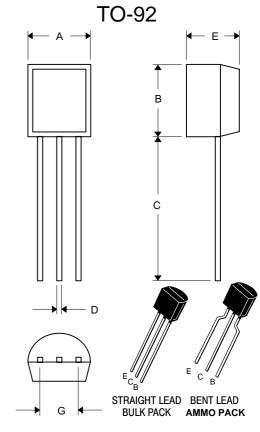
### **SMALL-SIGNAL CHARACTERISTICS**

f <sub>T</sub>	Transistor Frequency		
	(b=10mAdc, Vce=6.0Vdc, f=30MHz)	150	MHz

### CLASSIFICATION OF HEED

Rank	Υ	GR
Range	120-240	200-400

# NPN Silicon Plastic-Encapsulate Transistor



DIMENSIONS					
	INCHES		ММ		
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.

www.mccsemi.com

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# **Ordering Information:**

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

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

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