

**Micro Commercial Components** 



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# 2SA965-Y

## **Features**

- Halogen free available upon request by adding suffix "-HF"
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Complementary to 2SC2235
- Lead Free Finish/Rohs Compliant ("P"Suffix designates Compliant. See ordering information)

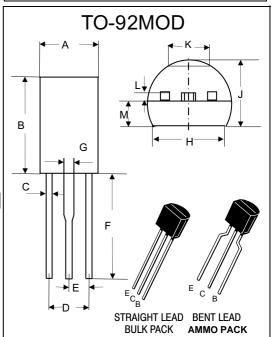
## **Maximum Ratings**

Symbol	Rating	Rating	Unit
$V_{CEO}$	Collector-Emitter Voltage	-120	V
$V_{CBO}$	Collector-Base Voltage	-120	V
$V_{EBO}$	Emitter-Base Voltage	-5.0	V
I <sub>C</sub>	Collector Current, Continuous	-0.8	Α
$P_{D}$	Total Device Dissipation	0.9	W
T <sub>J</sub>	Operating Junction Temperature	-55 to +150	$^{\circ}$
T <sub>STG</sub>	Storage Temperature	-55 to +150	$^{\circ}\mathbb{C}$

### Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage (I <sub>C</sub> =-10mAdc, I <sub>B</sub> =0)	-120		Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage (I <sub>C</sub> =-1.0mAdc, I <sub>E</sub> =0)	-120		Vdc
V <sub>(BR)EBO</sub>	Emitter-Base Breakdown Voltage (I <sub>E</sub> =-1.0mAdc, I <sub>C</sub> =0)	-5.0		Vdc
I <sub>CBO</sub>	Collector Cutoff Current (V <sub>CB</sub> =-120Vdc, I <sub>E</sub> =0)		-100	nAdc
I <sub>EBO</sub>	Base Cutoff Current (V <sub>EB</sub> =-5.0Vdc, I <sub>C</sub> =0)		-100	nAdc
H <sub>FE</sub>	DC Current Gain ( V <sub>CE</sub> =-5V, I <sub>C</sub> =-100mA)	120	240	
V <sub>CE(sat)</sub>	Collector-emitter Saturation Voltage (I <sub>C</sub> =-5000mA, I <sub>B</sub> =-50mA)		-1.0	V
$V_{BE}$	Base-emitter voltage (I <sub>C</sub> =-500mA,V <sub>CE</sub> =-5V)		-1.0	٧
f⊤	Transition frequency (I <sub>C</sub> =-100mA,V <sub>CE</sub> =-5V)	120(TYP)		MHz
C <sub>ob</sub>	Collector output capacitance (I <sub>E</sub> =0,V <sub>CB</sub> =-10V,f=1MHz)		40	pF

# PNP Plastic-Encapsulate Transistors



DIMENSIONS					
	INCHES MM				
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.228	.244	5.80	6.20	
В	.331	.346	8.40	8.80	
С	.016	.024	0.40	0.60	
D	.114	.122	2.90	3.10	Straight Lead
	.173	.220	4.40	5.60	Bent Lead
Е	.059		1.50		Straight Lead
	.086	.110	2.20	2.80	Bent Lead
F	.543	.559	13.80	14.20	
G	.035	.043	0.90	1.10	
Н	.157		4.00	-	
J	.185	.201	4.70	5.10	
K		.063		1.60	
Ĺ	.016	.020	0.40	0.50	
M	.068	.080	1.73	2.03	

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



## **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-AP-HF

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