

Pb

**Micro Commercial Components** 

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 D965-T D965-R

# **Features**

- Halogen free available upon request by adding suffix "-HF"
- Power Dissipation: P<sub>CM</sub>=0.75W @ T<sub>amb</sub>=25℃
- Collector Current: I<sub>CM</sub>=5A
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Marking: D965T/R
- Lead Free Finish/Rohs Compliant ("P"Suffix designates Compliant. See ordering information)

# **Maximum Ratings**

Symbol	Rating	Rating	Unit
$V_{CEO}$	Collector-Emitter Voltage	22	V
$V_{CBO}$	Collector-Base Voltage	42	V
$V_{EBO}$	Emitter-Base Voltage	6.0	V
Ic	Collector Current, Continuous	5	Α
P <sub>D</sub>	Total Device Dissipation	750	mW
$T_J$	Operating Junction Temperature	-55 to +150	$^{\circ}$ C
T <sub>STG</sub>	Storage Temperature	-55 to +150	$^{\circ}\!\mathbb{C}$

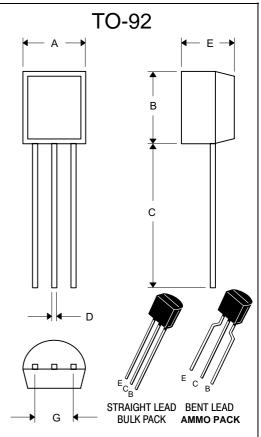
## Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
OFF CHARA	CTERISTICS			
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage* (I <sub>C</sub> =10mAdc, I <sub>B</sub> =0)	22		Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage $(I_C=100\mu Adc, I_E=0)$	42		Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage $(I_E=100\mu Adc, I_C=0)$	6.0		Vdc
I <sub>CBO</sub>	Collector Cutoff Current (V <sub>CB</sub> =20Vdc, I <sub>E</sub> =0)		100	nAdc
I <sub>EBO</sub>	Base Cutoff Current (V <sub>EB</sub> =3.0Vdc, I <sub>C</sub> =0)		100	nAdc
H <sub>FE</sub>	DC Current Gain (V <sub>CE</sub> =2V, I <sub>C</sub> =0.15mA)	150		
	( V <sub>CE</sub> =2V, I <sub>C</sub> =500mA)	340	950	
	( V <sub>CE</sub> =2V, I <sub>C</sub> =2000mA)	150		
V <sub>CE(sat)</sub>	Collector-emitter Saturation Voltage (I <sub>c</sub> =3000mA, I <sub>B</sub> =100mA)		0.35	V

# Classification of Hff @ ( Vcf=2V, Ic=500mA)

Rank	R	Т
Range	340-600	560-950

# NPN Plastic-Encapsulate Transistors



DIMENSIONS					
	INCHI	ΞS	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.



#### **Micro Commercial Components**

## **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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