

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

- Power Dissipation: P_{CM} =0.75W @ T_{amb} =25 $^{\circ}$ C
- Collector Current: I_{CM}=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 _D	Total Device Dissipation	750	mW
T_J	Operating Junction Temperature	-55 to +150	$^{\circ}$ C
T _{STG}	Storage Temperature	-55 to +150	$^{\circ}\!\mathbb{C}$

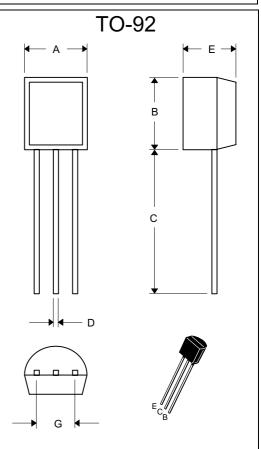
Electrical Characteristics @ 25°C Unless Otherwise Specified

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

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

Rank	R	T
Range	340-600	560-950

NPN Plastic-Encapsulate Transistors



DIMENSIONS					
INCHES		ММ			
MIN	MAX	MIN	MAX	NOTE	
.170	.190	4.33	4.83		
.170	.190	4.30	4.83		
.550	.590	13.97	14.97		
.010	.020	0.36	0.56		
.130	.160	3.30	3.96		
.096	.104	2.44	2.64		
	MIN .170 .170 .550 .010 .130	MIN MAX .170 .190 .170 .190 .550 .590 .010 .020 .130 .160	MIN MAX MIN .170 .190 4.33 .170 .190 4.30 .550 .590 13.97 .010 .020 0.36 .130 .160 3.30	MIN MAX MIN MAX .170 .190 4.33 4.83 .170 .190 4.30 4.83 .550 .590 13.97 14.97 .010 .020 0.36 0.56 .130 .160 3.30 3.96	

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Ordering Information:

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

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