

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

 Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

Marking: D965R/T

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
TJ	Operating Junction Temperature	-55 to +150	°C
T _{STG}	Storage Temperature	-55 to +150	$^{\circ}\!\mathbb{C}$

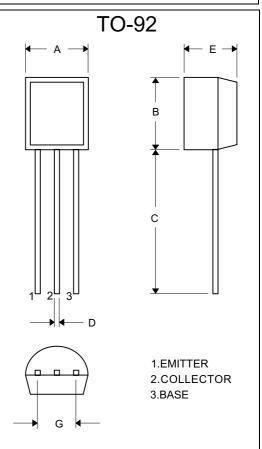
Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units		
OFF CHARA	ACTERISTICS					
$V_{(BR)CEO}$	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 =100µAdc, 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)	150				
	$(V_{CE}=2V, I_{C}=500mA)$	340	950			
	(V _{CE} =2V, I _C =2000mA)	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	Т
Range	340-600	560-950

NPN Plastic-Encapsulate Transistors



DIMENSIONS						
	INCHES		ММ			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.170	.190	4.33	4.83		
В	.170	.190	4.30	4.83		
О	.550	.590	13.97	14.97		
D	.010	.020	0.36	0.56		
Е	.130	.160	3.30	3.96		
G	.010	.104	2.44	2.64		
G	.010	.104	2.44	2.04	l .	

www.mccsemi.com



Micro Commercial Components

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes.
Micro Commercial Components Corp. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold Micro Commercial Components Corp. and all the companies whose products are represented on our website, harmless against all damages.

APPLICATIONS DISCLAIMER

Products offer by *Micro Commercial Components Corp* . are not intended for use in Medical,

Aerospace or Military Applications.