



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_{CM}=0.75W @ T_{amb}=25℃
- 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	$^{\circ}\!\mathbb{C}$

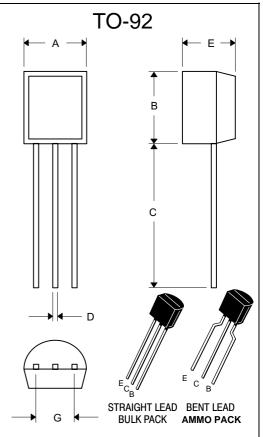
Electrical Characteristics @ 25°C Unless Otherwise Specified

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 $(I_C=100\mu Adc, I_E=0)$	42		Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage $(I_E=100\mu Adc, I_C=0)$	6.0		Vdc
I _{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 @ (Vce=2V. lc=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

^{*} For ammo packing detailed specification, click here to visit our website of product packaging for details.

www.mccsemi.com



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

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.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources. MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.