

Micro Commercial Components



Micro Commercial Components 130 W Cochran St, Unit B Simi Valley, CA 93065 Tel:818-701-4933

Features

- Halogen free available upon request by adding suffix "-HF"
- Mounting Torgue: 5 in-lbs Maximum
- Low collector-emitter saturation voltage
- Amplifier applications -emitter shunt resistors
- TO-220 compact package
- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1

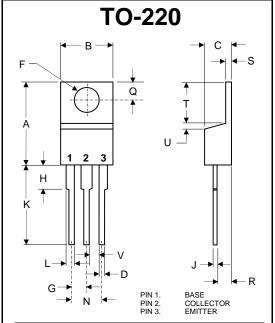
Maximum Ratings@Ta=25°C Unless Otherwise Specified

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Symbol	Rating	Rating		Unit				
V _{CEO}	Collector-Emitter Voltage	60		V				
V _{CBO}	Colector-Base Voltage	60		V				
V _{EBO}	Emitter-Base Voltage	5.0		V				
I _{CP}	Peak Collector Current	8.0		А	-			
l _c	Collector Current	5.0	A					
Pc	Collector power dissipation(Tc=25°C)	65	W 150 ^o C		-			
TJ	Junction Temperature	-55 to +	-55 to +150					
T _{STG}	Storage Temperature	-55 to +	150 ^o C					
RthJC	Thermal Resistence, Junction to case	1.92	1.92					
R _{th} JA	Thermal Resistence, Junction to ambient	62.5	62.5					
Electrical Characteristics @ 25°C Unless Otherwise Specified								
Symbol	Parameter	Min	Max	Units	s			
OFF CHARA	CTERISTICS							
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	60		Vdc	;			
	$(I_{c}=100 \text{ mAdc}, I_{B}=0)$		0.0		-			
Сво	Collector-Base Cutoff Current (V _{CB} =60Vdc, =0)		0.2	mAde	С			
I _{EBO}	Emitter-Base Cutoff Current (V _{EB} =5.0Vdc,		2.0	mAde	С			
I _{CEO}	Collector-Emitter Cutoff Current (V $_{CE}$ =30Vdc, $_{b}$ =0)		0.5	mAde	С			
ON CHARAG	CTERISTICS							
h _{FE-1}	Forward Current Transfer Ratio (I $_{c}$ =0.5Adc, V _{CE} =3.0Vdc)	1000						
h _{FE-2}	Forward Current Transfer Ratio (I $_{c}$ =3.0Adc, V _{CE} =3.0Vdc)	1000						
V _{CE(sat)-1}	Collector-Emitter Saturation Voltage (I $_{c}$ =3.0Adc, $_{B}$ =12mAdc)		2.0) Vdc	;			
V _{CE(sat)-2}	Collector-Emitter Saturation Voltage (I $_{c}$ =5.0Adc, $_{b}$ =20mAdc)		4.0) Vdc	;			
V _{BE(on)}	Base-Emitter On Voltage (I _c =3.0Adc, V _{ce} =3.0Adc)		2.5	i Vdc	;			

Notes:1.High Temperature Solder Exemption Applied, see EU Directive Annex 7.

TIP120

NPN Epitaxial Darlington Transistors



	DIMENSIONS INCHES M		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	.560	.625	14.22	15.88	
В	.380	.420	9.65	10.67	
С	.140	.190	3.56	4.82	
D	.020	.045	0.51	1.14	
F	.139	.161	3.53	4.09	Ø
G	.190	.110	2.29	2.79	
Н		.250		6.35	
J	.012	.025	0.30	0.64	
К	.500	.580	12.70	14.73	
L	.045	.060	1.14	1.52	
Ν	.190	.210	4.83	5.33	
Q	.100	.135	2.54	3.43	
R	.080	.115	2.04	2.92	
S	.045	.055	1.14	1.39	
Т	.230	.270	5.84	6.86	
U		.050		1.27	
V	.045		1.15		

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Ordering Information :

Device	Packing
Part Number-BP	Bulk; 1Kpcs/Box

Note : Adding "-HF" suffix for halogen free, eg. Part Number-BP-HF

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