imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

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

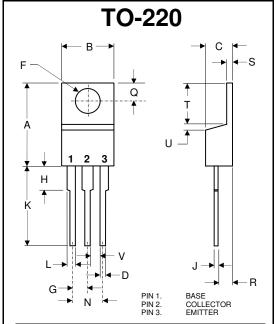
Symbol	Rating	Rating		Unit				
V _{CEO}	Collector-Emitter Voltage	60		V				
V _{CBO}	Colector-Base Voltage	60 V			V			
V _{EBO}	Emitter-Base Voltage	5.0	V					
СP	Peak Collector Current	8.0	8.0 A					
ե	Collector Current	5.0	5.0 A					
Pc	Collector power dissipation(Tc=25°C)	65 W						
TJ	Junction Temperature	-55 to +150		°C				
T _{STG}	Storage Temperature	-55 to +	o +150 °C		°C			
RthJC	Thermal Resistence, Junction to case	1.92		°C/W				
R _{th} JA	Thermal Resistence, Junction to ambient	62.5		°C/W				
Bectrica	al Characteristics @25°C Unles	s Otherw	ise Sp	bec	ified			
Symbol	Parameter	Min	Max		Units			
OFFCHARACTERISTICS								
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage (I $_{C}$ =100mAdc, l_{B} =0)	60			Vdc			
Сво	Collector-Base Cutoff Current (V _{CB} =60Vdc, =0)		0.2		mAdc			
I _{EBO}	Emitter-Base Cutoff Current (V _{EB} =5.0Vdc,		2.0		mAdc			
I _{CEO}	Collector-Emitter Cutoff Current		0.5 mAdc					

I_{CEO} (V _{CE}=30Vdc, <u>b</u>=0) **ON CHARACTERISTICS** Forward Current Transfer Ratio 1000 --h_{FE-1} (I _C=0.5Adc, V_{CE}=3.0Vdc) $h_{\text{FE-2}}$ Forward Current Transfer Ratio 1000 --- $(I _{C}=3.0Adc, V_{CE}=3.0Vdc)$ Collector-Emitter Saturation Voltage 2.0 Vdc V_{CE(sat)-1} (I c=3.0Adc, b=12mAdc) 4.0 Vdc V_{CE(sat)-2} Collector-Emitter Saturation Voltage --- $(I _{C}=5.0 \text{Adc}, \underline{b}=20 \text{mAdc})$ V_{BE(on)} Base-Emitter On Voltage ---2.5 Vdc (I _C=3.0Adc, V_{CE}=3.0Adc)

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

TIP120

NPN Epitaxial Darlington Transistors



			ENSIONS		
		INCHES		MM	
DIM	MIN	MAX	MIN	MAX	NOTE
А	.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		

www.mccsemi.com



Ordering Information :

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

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

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