

Features

- · Low Collector-Emitter Saturation Voltage
- · Amplifier Applications-Emitter Shunt Resistors
- · Halogen Free Available Upon Request By Adding Suffix "-HF"
- · Moisture Sensitivity Level 1
- · Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix Designates RoHS Compliant. See Ordering Information)

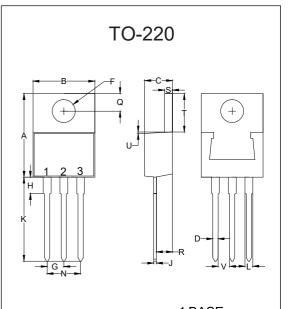
Maximum Ratings @ 25°C Unless Otherwise Specified

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 1.92°C/W Junction to Case
- Thermal Resistance: 62.5°C/W Junction to Ambient

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	60	V
Collector-Emitter Voltage	V _{CEO}	60	V
Emitter-Base Voltage	V _{EBO}	5	V
Continuous Collector Current	I _C	5	Α
Peak Collector Current	I _{CM}	8	Α
Power Dissipation @ T _C =25°C	P_{D}	65	W

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

NPN Epitaxial Darlington Transistors



1.BASE 2.COLLECTOR 3.EMITTER

DIMENSIONS					
DIM INCHES		MM		NOTE	
Dilvi	MIN	MAX	MIN	MAX	NOTE
Α	0.560	0.625	14.22	15.88	
В	0.380	0.420	9.65	10.67	
С	0.140	0.190	3.56	4.82	
D	0.020	0.045	0.51	1.14	
F	0.139	0.161	3.53	4.09	Ф
G	0.090	0.110	2.29	2.79	
Н		0.250		6.35	
J	0.012	0.025	0.30	0.64	
K	0.500	0.580	12.70	14.73	
L	0.045	0.060	1.14	1.52	
N	0.190	0.210	4.83	5.33	
Q	0.100	0.135	2.54	3.43	
R	0.080	0.115	2.04	2.92	
S	0.045	0.055	1.14	1.39	
Т	0.230	0.270	5.84	6.86	
U		0.050		1.27	
V	0.045		1.15		

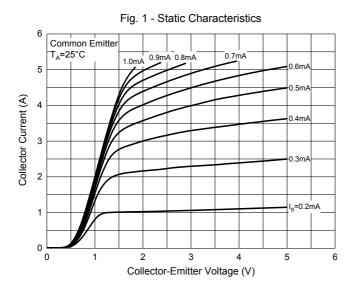


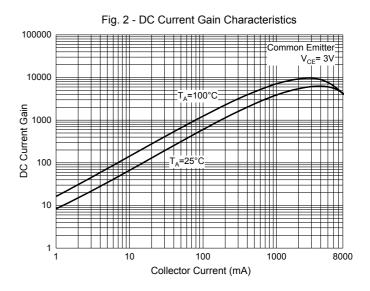
Electrical Characteristics @ T_A =25°C Unless Otherwise Specified

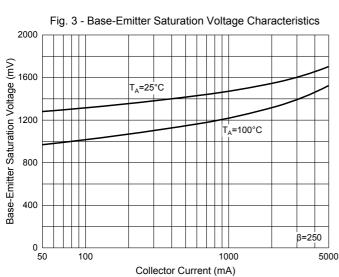
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	60			V	I _C =100mA, I _B =0
Collector Cutoff Current	I _{CBO}			0.2	mA	V_{CB} =60V, I_{E} =0
Collector Cutoff Current	I _{CEO}			0.5	mA	V _{CE} =30V, I _B =0
Emitter Cutoff Current	I _{EBO}			2.0	mA	$V_{EB}=5V$, $I_C=0$
DC Current Gain	h _{FE(1)}	1000				V _{CE} =3V, I _C =0.5A
Do Guiterit Gairi	h _{FE(2)}	1000				$V_{CE}=3V$, $I_{C}=3A$
Collector-Emitter Saturation Voltage	V _{CE(sat)}			2.0	V	I _C =3A, I _B =12mA
				4.0	V	I _C =5A, I _B =20mA
Base-Emitter On Voltage	V_{BE}			2.5	V	$V_{CE}=3V$, $I_{C}=3A$

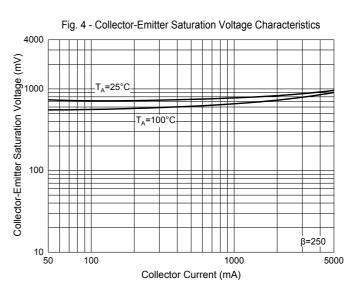


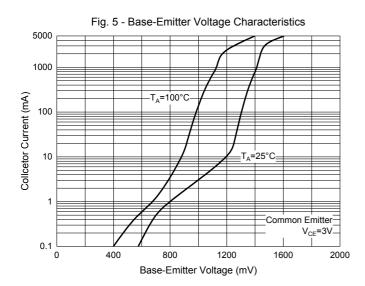
Curve Characteristics

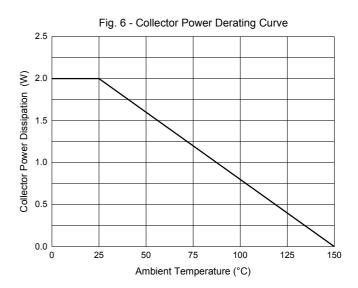














Ordering Information

Device	Packing		
Part Number-BP	Bulk:50pcs/Tube,1Kpcs/Box,5Kpcs/Carton		

Note: Adding "-HF" Suffix For Halogen Free, eg. Part Number-BP-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. *Micro Commercial Components Corp*, products are sold subject to the general terms and conditions of commercial sale, as published at

https://www.mccsemi.com/Home/TermsAndConditions.

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.