

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

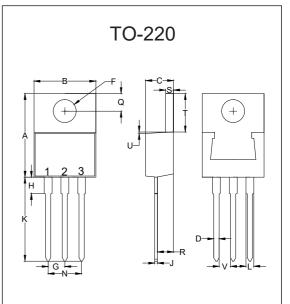
• Thermal Resistance: 1.92°C/W Junction to Case

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
DIIVI	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		

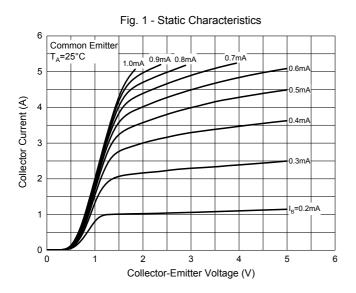


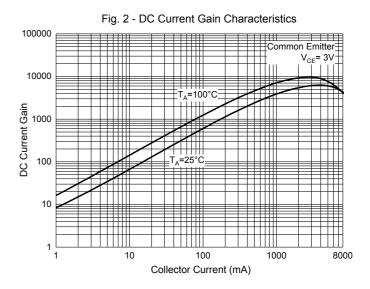
Electrical Characteristics @ T_A =25°C Unless Otherwise Specified

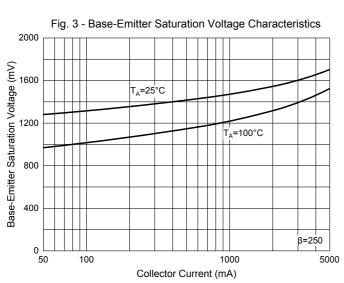
Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	60			V	I _C =100mA, I _B =0
Collector Cutoff Current	I _{CBO}			0.2	mA	V_{CB} =60V, I_E =0
Collector Cutoff Current	I _{CEO}			0.5	mA	V_{CE} =30V, I_{B} =0
Emitter Cutoff Current	I _{EBO}			2.0	mA	V_{EB} =5 V , I_{C} =0
DC Current Gain	h _{FE(1)}	1000				V_{CE} =3V, I_{C} =0.5A
De Current Gain	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	$V_{CE}=3V$, $I_{C}=3A$

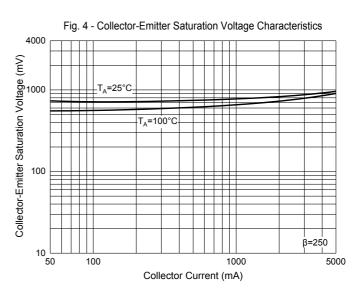


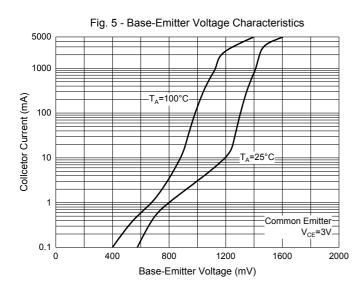
Curve Characteristics

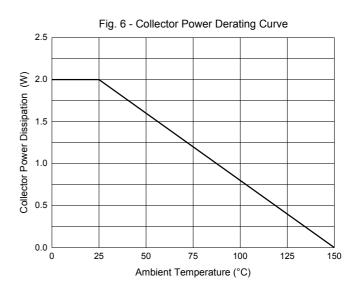














Ordering Information

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

Note: Adding "-HF" Suffix For Halogen Free, eg. Part Number-BP-HF

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