

SILICON PNP DARLINGTON POWER TRANSISTOR



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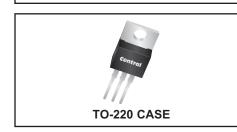
DESCRIPTION:

The CENTRAL SEMICONDUCTOR BDX54B is a silicon PNP Darlington power transistor designed for high gain amplifier applications.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: (T _C =25°C)		SYMBOL		UNITS				
Collector-Base Voltage		V _{CBO}	80	V				
Collector-Emitter Voltage		V _{CEO}	80	V				
Emitter-Base Voltage		V _{EBO}	5.0	V				
Continuous Collector Current		۱ _C	8.0	А				
Peak Collector Current		ICM	12	А				
Continuous Base Current		۱ _B	200	mA				
Power Dissipation		PD	60	W				
Operating and Storage Junction Temperature		TJ, T _{stg}	-65 to +150	°C				
Thermal Resistance		Θ _{JA}	70	°C/W				
Thermal Resistance		ΘJC	2.08	°C/W				
ELECTRICAL CHARACTERISTICS: (T _C =25°C unless otherwise noted)								
SYMBOL	TEST CONDITIONS	MIN	MAX 200	UNITS				
СВО	V _{CB} =80V			μA				
ICEO	V _{CE} =40V		500	μA				
I _{EBO}	V _{EB} =5.0V		2.0	mA				
BVCEO	I _C =100mA	80		V				
V _{CE(SAT)}	I _C =3.0A, I _B =12mA		2.0	V				
V _{BE(SAT)}	I _C =3.0A, I _B =12mA		2.5	V				
V _F	I _F =10A		2.8	V				
h _{FE}	V _{CE} =3.0V, I _C =3.0A	750						

R0 (19-June 2018)



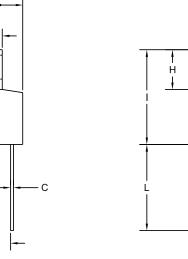




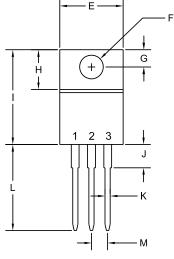
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Α-

в-



TO-220 CASE - MECHANICAL OUTLINE



R2

LEAD CODE:

D —

1) Base 2) Collector 3) Emitter

Tab is common to pin 2

MARKING: FULL PART NUMBER

DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
А	0.170	0.190	4.31	4.82			
В	0.045	0.055	1.15	1.39			
С	0.013	0.026	0.33	0.65			
D	0.083	0.107	2.10	2.72			
E	0.394	0.417	10.01	10.60			
F (DIA)	0.140	0.157	3.55	4.00			
G	0.100	0.118	2.54	3.00			
Н	0.230	0.270	5.85	6.85			
	0.560	0.625	14.23	15.87			
J	-	0.250	-	6.35			
K	0.025	0.038	0.64	0.96			
L	0.500	0.579	12.70	14.70			
М	0.090	0.110	2.29	2.79			

TO-220 (REV: R2)

R0 (19-June 2018)

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OUTSTANDING SUPPORT AND SUPERIOR SERVICES

PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free guick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- · Environmental regulation compliance
- Customer specific screening
- · Up-screening capabilities

· Custom product packing

Custom bar coding for shipments

- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- · Application and design sample kits
- · Custom product and package development

REQUESTING PRODUCT PLATING

- If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when 1. ordering (example: 2N2222A TIN/LEAD).
- 2. If requesting Lead (Pb) Free plated devices, add the suffix " PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

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