

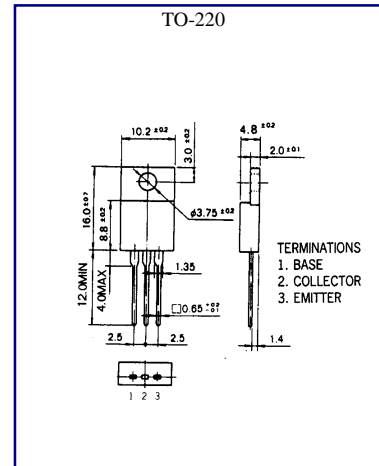


BDX54/A/B/C

PNP EPITAXIAL SILICON TRANSISTOR

POWER DARLINGTON TR HAMMER DRIVERS, AUDIO AMPLIFIERS APPLICATION
 POWER LINEAR AND SWITCHING APPLICATIONS

- Complementary to BDX53/53A/53B/53C respectively



ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage :BDX54	V _{CB0}	-45	V
:BDX54A		-60	V
:BDX54B		-80	V
:BDX54C		-100	V
Collector-Emitter Voltage :BDX54	V _{CE0}	-45	V
:BDX54A		-60	V
:BDX54B		-80	V
:BDX54C		-100	V
Emitter-Base voltage	V _{EB0}	- 5	V
Collector Current (DC)	I _C	- 8	A
Collector Current (Pulse)	I _c	-12	A
Base Current (DC)	I _B	-0.2	A
Collector Dissipation (Tc=25°C)	P _C	60	W
Junction Temperature	T _j	150	°C
Storage Temperature	T _{stg}	-50~150	°C

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ELECTRICAL CHARACTERISTICS (Ta=25°C)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Collector Emitter Sustaining Voltage	:BDX54 :BDX54A :BDX54B :BDX54C	$V_{CE(SUS)}$ $I_C = -100mA, I_B = 0$	-45 -60 -80 -100			V V V V
Collector Cutoff Current	:BDX54 :BDX54A :BDX54B :BDX54C	I_{CBO} $V_{CB} = -45V, I_E = 0$ $V_{CB} = -60V, I_E = 0$ $V_{CB} = -80V, I_E = 0$ $V_{CB} = -100V, I_E = 0$			-200 -200 -200 -200	μA μA μA μA
Collector Cutoff Current	:BDX54 :BDX54A :BDX54B :BDX54C	I_{CEO} $V_{CE} = -22V, I_C = 0$ $V_{CE} = -30V, I_C = 0$ $V_{CE} = -40V, I_C = 0$ $V_{CE} = -50V, I_C = 0$			-500 -500 -500 -500	μA μA μA μA
Emitter Cutoff Current		I_{EBO} $V_{EB} = -5V, I_C = 0$			-2	mA
DC Current Gain		h_{FE} $V_{CE} = -3V, I_C = 3A$	750			V
Collector- Emitter Saturation Voltage		$V_{CE(sat)}$ $I_C = -3A, I_B = -12mA$			-2	V
Base- Emitter Saturation Voltage		$V_{BE(sat)}$ $I_C = -3A, I_B = -12mA$			-2.5	V
Parallel Diode Forward Voltage		V_f $I_f = -3A$ $I_f = -8A$		-1.8 -2.5	-2.5	V V