FAIRCHILD

SEMICONDUCTOR TM

BD242/A/B/C

Medium Power Linear and Switching Applications

Complement to BD241/A/B/C respectively



1.Base 2.Collector 3.Emitter

PNP Epitaxial Silicon Transistor

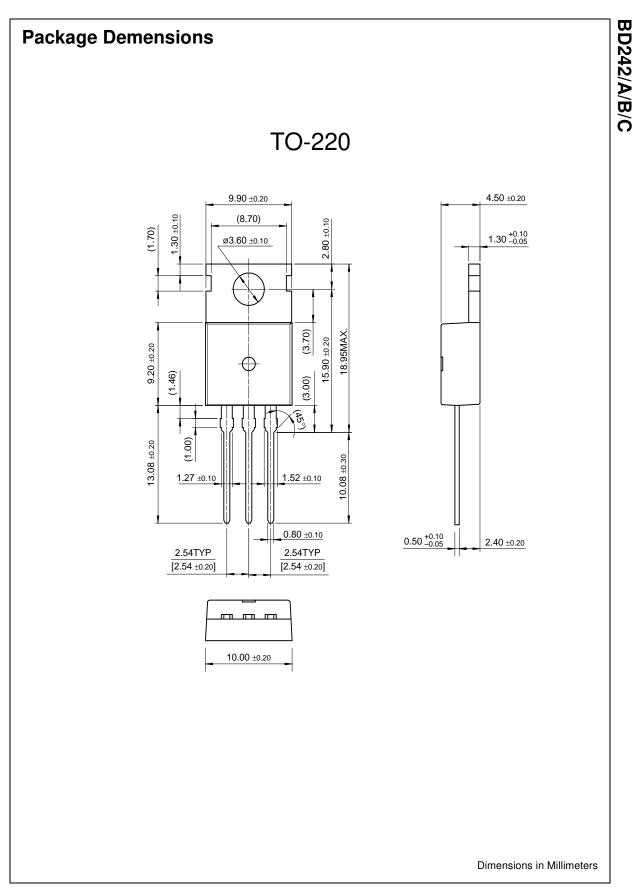
Absolute Maximum Ratings T_C=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{CEO}	Collector-Emitter Voltage		
	: BD242	- 45	V
	: BD242A	- 60	V
	: BD242B	- 80	V
	: BD242C	- 100	V
V _{CER}	Collector-Emitter Voltage		
	: BD242	- 55	V
	: BD242A	- 70	V
	: BD242B	- 90	V
	: BD242C	- 115	V
V _{EBO}	Emitter-Base Voltage	- 5	V
lc	Collector Current (DC)	- 3	А
СР	*Collector Current (Pulse)	- 5	А
I _B	Base Current	- 1	А
P _C	Collector Dissipation (T _C =25°C)	40	W
ТJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	- 65 ~ 150	°C

Electrical Characteristics $T_C=25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
V _{CEO} (sus)	* Collector-Emitter Sustaining Voltage					
	: BD242	$I_{\rm C} = -30 {\rm mA}, I_{\rm B} = 0$	- 45			V
	: BD242A	5	- 60			V
	: BD242B		- 80			V
	: BD242C		- 100			V
I _{CEO}	Collector Cut-off Current : BD242/A	V _{CE} = - 30V, I _B = 0			- 0.3	mA
	: BD242B/C	$V_{CE} = -60V, I_B = 0$			- 0.3	mA
I _{CES}	Collector Cut-off Current : BD242	V _{CE} = - 45V, V _{BE} = 0			- 0.2	mA
	: BD242A	$V_{CE} = -60V, V_{BE} = 0$			- 0.2	mA
	: BD242B	$V_{CE} = -80V, V_{BE} = 0$			- 0.2	mA
	: BD242C	$V_{CE} = -100V, V_{BE} = 0$			- 0.2	mA
EBO	Emitter Cut-off Current	$V_{EB} = -5V, I_{C} = 0$			- 1	mA
h _{FE}	* DC Current Gain	V _{CE} = - 4V, I _C = - 1A	25			
		$V_{CE} = -4V, I_{C} = -3A$	10			
V _{CE} (sat)	* Collector-Emitter Saturation Voltage	I _C = - 3A, I _B = - 0.6A			- 1.2	V
V _{BE} (on)	* Base-Emitter ON Voltage	$V_{CE} = -4V, I_{C} = -3A$			- 1.8	V

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