

BD241/A/B/C

Medium Power Linear and Switching Applications

Complement to BD242/A/B/C respectively



1.Base 2.Collector 3.Emitter

NPN Epitaxial Silicon Transistor

Absolute Maximum Ratings T_C=25°C unless otherwise noted

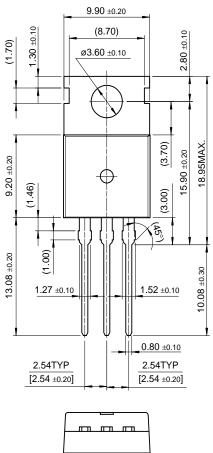
Symbol	Parameter	Value	Units
V _{CEO}	Collector-Emitter Voltage	and the second	
	: BD241	45	V
	: BD241A	60	V
	: BD241B	80	V
	: BD241C	100	V
V _{CER}	Collector-Emitter Voltage		
	: BD241	55	V
	: BD241A	70	V
	: BD241B	90	V
	: BD241C	115	V
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current (DC)	3	Α
СР	*Collector Current (Pulse)	5	Α
В	Base Current	1	А
P _C	Collector Dissipation (T _C =25°C)	40	W
T _J	Junction Temperature	150	°C
T _{STG}	Storage Temperature	- 65 ~ 150	°C

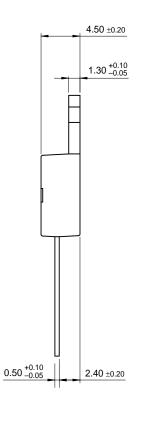
Electrical Characteristics T_C=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
V _{CEO} (sus)	* Collector-Emitter Sustaining Voltage		1.00		7.7	UNDT
0201	: BD241	$I_C = -30 \text{mA}, I_B = 0$	45	121		V
	: BD241A		60	-	0.07	V
	: BD241B		80	of Mr.		V
	: BD241C		100			V
I _{CEO}	Collector Cut-off Current : BD241/A	$V_{CE} = 30 \text{ V}, I_{B} = 0$			0.3	mA
	: BD241B/C	$V_{CE} = 60V, I_{B} = 0$			0.3	mA
I _{CES}	Collector Cut-off Current : BD241	$V_{CE} = 45V, V_{BE} = 0$			0.2	mA
	: BD241A	$V_{CE} = 60 \text{ V}, V_{BE} = 0$			0.2	mA
	: BD241B	$V_{CE} = 80V, V_{BE} = 0$			0.2	mA
	: BD241C	$V_{CE} = 100V, V_{BE} = 0$			0.2	mA
I _{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
	* Base-Emitter ON Voltage 50μs, duty Cycle≤2% Pulsed	$V_{CE} = 4V, I_C = 3A$				1.8

Package Demensions

TO-220





10.00 ±0.20

Dimensions in Millimeters

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FAST® Quiet Series TM SuperSOT TM -3 SuperSOT TM -6

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