

Silicon PNP Power Transistors

BD240/A/B/C

DESCRIPTION

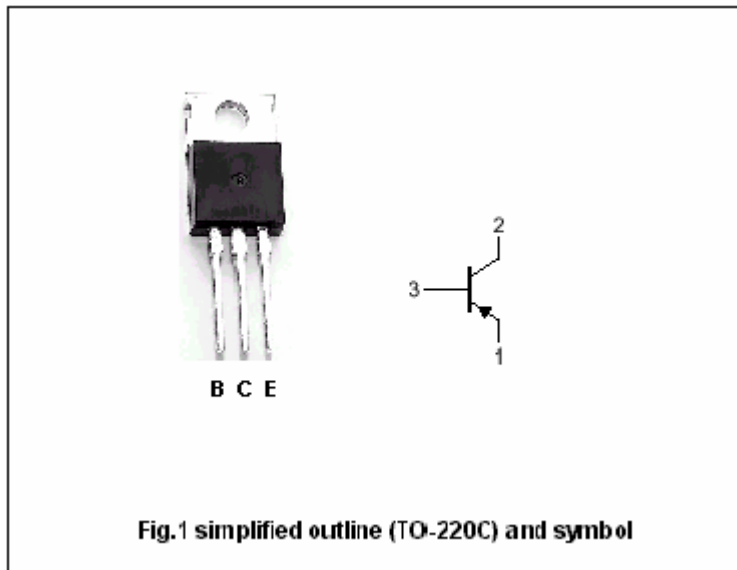
- With TO-220C package
- Complement to type BD239/A/B/C

APPLICATIONS

- For medium power linear and switching applications

PINNING

PIN	DESCRIPTION
1	Emitter
2	Collector;connected to mounting base
3	Base



Absolute maximum ratings (Ta=25 )

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT	
V <sub>CBO</sub>	Collector-base voltage	Open emitter	BD240	-55	V
			BD240A	-70	
			BD240B	-90	
			BD240C	-115	
V <sub>CEO</sub>	Collector-emitter voltage	Open base	BD240	-45	V
			BD240A	-60	
			BD240B	-80	
			BD240C	-100	
V <sub>EBO</sub>	Emitter-base voltage	Open collector	-5	V	
I <sub>C</sub>	Collector current		-2	A	
I <sub>CM</sub>	Collector current-peak		-4	A	
I <sub>B</sub>	Base current		-0.6	A	
P <sub>C</sub>	Collector power dissipation	T <sub>C</sub> =25	30	W	
T <sub>j</sub>	Junction temperature		150		
T <sub>stg</sub>	Storage temperature		-65~150		

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## CHARACTERISTICS

T<sub>j</sub>=25 unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT	
V <sub>CEO(SUS)</sub>	Collector-emitter sustaining voltage	BD240	-45			V	
		BD240A	-60				
		BD240B	-80				
		BD240C	-100				
V <sub>CEsat</sub>	Collector-emitter saturation voltage	I <sub>C</sub> =-1 A; I <sub>B</sub> =-0.2 A			-0.7	V	
V <sub>BE</sub>	Base-emitter on voltage	I <sub>C</sub> =-1 A; V <sub>CE</sub> =-4V			-1.3	V	
I <sub>CEO</sub>	Collector cut-off current	BD240/A	V <sub>CE</sub> =-30V; I <sub>B</sub> =0			-0.3	mA
		BD240B/C	V <sub>CE</sub> =-60V; I <sub>B</sub> =0				
I <sub>CES</sub>	Collector cut-off current	BD240	V <sub>CE</sub> =-45V; V <sub>BE</sub> =0			-0.2	mA
		BD240A	V <sub>CE</sub> =-60V; V <sub>BE</sub> =0				
		BD240B	V <sub>CE</sub> =-80V; V <sub>BE</sub> =0				
		BD240C	V <sub>CE</sub> =-100V; V <sub>BE</sub> =0				
I <sub>EBO</sub>	Emitter cut-off current	V <sub>EB</sub> =-5V; I <sub>C</sub> =0			-1	mA	
h <sub>FE-1</sub>	DC current gain	I <sub>C</sub> =-0.2A; V <sub>CE</sub> =-4V	40				
h <sub>FE-2</sub>	DC current gain	I <sub>C</sub> =-1A; V <sub>CE</sub> =-4V	15				

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PACKAGE OUTLINE

