BD910 BD912

DESCRIPTION

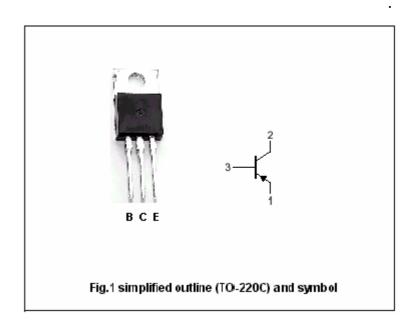
- · With TO-220C package
- · Complement to type BD909 BD911

APPLICATIONS

 Intented for use in 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	
	Callegter base voltage	BD910	Open emitter	-80	V	
V_{CBO}	Collector-base voltage	BD912	Open emiller	-100	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
V _{CEO}	Collector-emitter voltage	BD910	Open base	-80	V	
		BD912		-100		
V_{EBO}	Emitter-base voltage		Open collector	-5	V	
Ic	Collector current			-15	А	
l _Β	Base current			-5	А	
Pc	Collector power dissipation		T _C 25	90	W	
T _j	Junction temperature			150		
T _{stg}	Storage temperature			-65~150		

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal resistance junction to case		/W

BD910 BD912

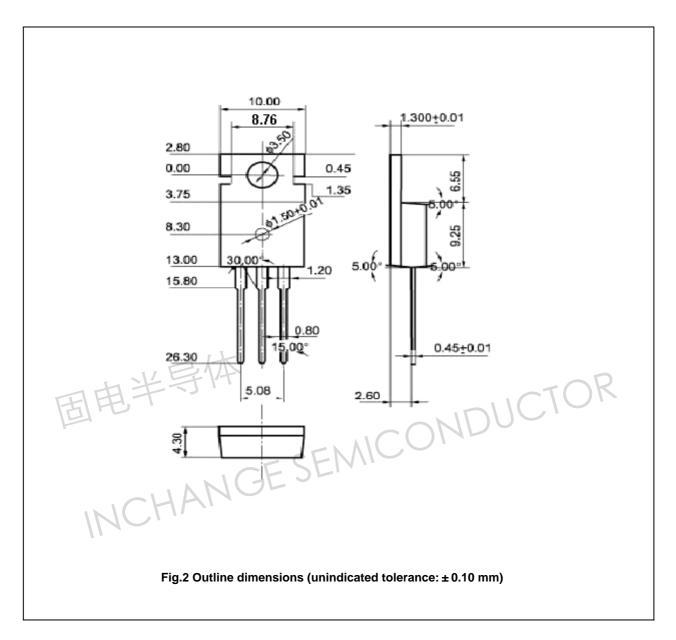
CHARACTERISTICS

Tj=25 unless otherwise specified

SYMBOL	PARAMETER		CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-emitter sustaining voltage	BD910	I _C =-0.1A; I _B =0	-80			V
		BD912		-100			
V _{CEsat-1}	Collector-emitter saturation voltage		I _C =-5 A;I _B =-0.5 A			-1.0	٧
V _{CEsat-2}	Collector-emitter saturation voltage		I _C =-10A;I _B =-2.5 A			-3.0	V
V_{BEsat}	Base-emitter saturation voltage		I _C =-10A;I _B =-2.5 A			-2.5	V
V_{BE}	Base-emitter voltage		I _C =-5A ; V _{CE} =-4V			-1.5	V
I _{CBO} Collector cu	Collector cut-off current	BD910	V _{CB} =-80V; I _E =0 T _C =150			-0.5 -5.0	- mA
	Collector cut-on current	BD912	V _{CB} =-100V; I _E =0 T _C =150		-0.5 -5.0	-0.5 -5.0	
I _{CEO} Collector cut-off curre	Collector cut-off current	BD910	V _{CE} =-40V; I _B =0		-1.0	mA	
	A Paragraph of Carrent	BD912	V _{CE} =-50V; I _B =0	Jai)C\	1,91	1107
I _{EBO}	Emitter cut-off current		V _{EB} =-5V; I _C =0			-1.0	mA
h _{FE-1}	DC current gain		I _C =-0.5A ; V _{CE} =-4V	40		250	
h _{FE-2}	DC current gain		I _C =-5A ; V _{CE} =-4V	15		150	
h _{FE-3}	DC current gain		I _C =-10A ; V _{CE} =-4V	5			
f_{T}	Transition frequency		I _C =-0.5A ; V _{CE} =-4V	3			MHz

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PACKAGE OUTLINE



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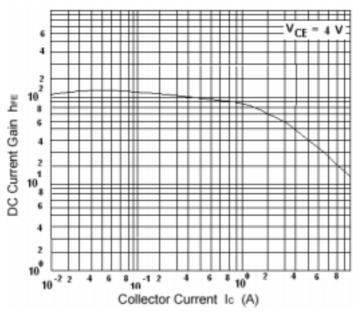
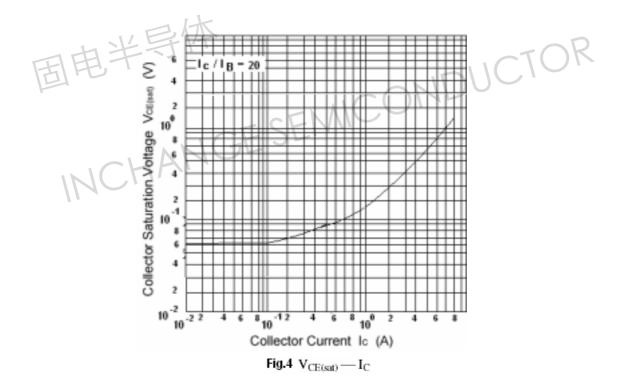


Fig.3 hFE - IC



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