

BD 905, 907, 909, 911 NPN

BD906, 908, 910, 912 PNP

Plastic Package

TO-220

PLASTIC POWER TRANSISTORS

B С Е

Power Linear and Switching Applications

ABSOLUTE MAXIMUM RATINGS (Ta=25°C unless specified otherwise)

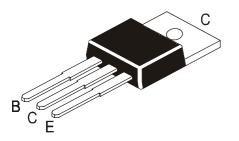
DESCRIPTION	SYMBOL	905	907	909	911	UNIT
		906	908	910	912	
Collector -Emitter Voltage	V _{CEO}	45	60	80	100	V
Collector -Base Voltage	V _{CBO}	45	60	80	100	V
Emitter -Base Voltage	V _{EBO}			5.0		V
Emitter and Collector Current	I _E , I _C			15		Α
Base Current	I _B			5.0		Α
Total Power Dissipation up to Tc=2	5°C P _{tot}			90		W
Junction Temperature	T _i			150		°C
Temperature Range	T _{stg}			-65 to +	150	°C

ELECTRICAL CHARACTERISTICS (Tc=25°C Unless Otherwise Specified)

DESCRIPTION	SYMBOL	• •	905 906	907 908	909 910	911 912	UNIT
Breakdown (sus) Voltage	V _{CEO(sus)} *	I _C =50mA, I _B =0	45	60	80	100	V
Collector-Cut off Current	I _{CEO}	$V_{CE} = 30V, I_B = 0$ $V_{CE} = 40V, I_B = 0$ $V_{CE} = 50V, I_B = 0$	1.0	1.0	1.0	1.0	mA mA mA
	I _{CBO}	$V_{CE} = 0.000, n_{B} = 0$ $I_{E} = 0, V_{CB} = Rated$ $V_{CBO}, I_{E} = 0, V_{CB} = Rated$			0.5	1.0	mA
		V _{CBO} , T _c =150 ℃			5		mA
Emitter-Cut off Current	I _{EBO}	V _{EB} =5V, I _C =O			1.0		mA
Saturation Voltages	V _{CE(Sat)} *	I _C =5A, I _B =0.5A			1.0		V
		I _C =10A, I _B =2.5A			3.0		V
	V _{BE(sat)} *	I _C =10A, I _B =2.5A			2.5		V



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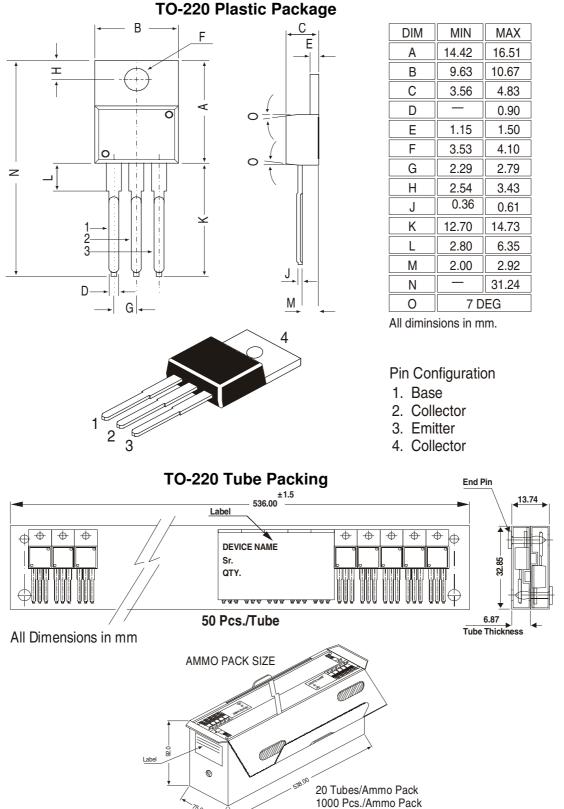
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DESCRIPTION	SYMBOL		905 906	907 908	909 910	911 912	UNIT
Base Emitter on Voltage	V _{BE(on)} *	I _C =5A, V _{CE} =4V,	300	900	1.5	512	V
DC Current Gain	h _{FE} *	I _C =0.5A, V _{CE} =4V		2	10-250		
		I _C =5A, V _{CE} =4V I _C =10A, V _{CE} =4V			5-150 >5		
Transition Frequency	f _T	V_{CE} =4V, I _C =0.5A,		>	>3.0		MHZ

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Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
TO-220		396 gm/200 pcs 135 gm/50 pcs	3" x 7.5" x 7.5" 3.5" x 3.7" x 21.5"		17" x 15" x 13.5" 19" x 19" x 19"	16K 10K	36 kgs 28 kgs

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Component Disposal Instructions

- 1. CDIL Semiconductor Devices are RoHS compliant, customers are requested to please dispose as per prevailing Environmental Legislation of their Country.
- 2. In Europe, please dispose as per EU Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE).

Disclaimer

The product information and the selection guides facilitate selection of the CDIL's Discrete Semiconductor Device(s) best suited for application in your product(s) as per your requirement. It is recommended that you completely review our Data Sheet(s) so as to confirm that the Device(s) meet functionality parameters for your application. The information furnished in the Data Sheet and on the CDIL Web Site/CD is believed to be accurate and reliable. CDIL however, does not assume responsibility for inaccuracies or incomplete information. Furthermore, CDIL does not assume liability whatsoever, arising out of the application or use of any CDIL product; neither does it convey any license under its patent rights nor rights of others. These products are not designed for use in life saving/support appliances or systems. CDIL customers selling these products (either as individual Discrete Semiconductor Devices or incorporated in their end products), in any life saving/support appliances or systems or applications do so at their own risk and CDIL will not be responsible for any damages resulting from such sale(s).

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