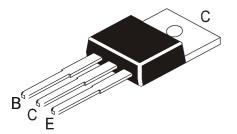


Continental Device India Limited An ISO/TS 16949, ISO 9001 and ISO 14001 Certified Company



NPN PLASTIC POWER TRANSISTOR



CDL13007D

TO-220 Plastic Package

Built in Diode

ABSOLUTE MAXIMUM RATINGS

DESCRIPTION	SYMBOL	VALUE	UNIT	
Collector Base Voltage	V _{CBO}	700	V	
Collector Emitter Voltage	V _{CEO}	400	V	
Emitter Base Voltage	V _{EBO}	9	V	
Collector Current Continuous	Ι _C	7	А	
Collector Power Dissipation T _c =25°C	P _C	80	W	
Junction Temperature	Tj	150	°C	
Storage Temperature Range	T _{stg}	- 55 to +150	°C	

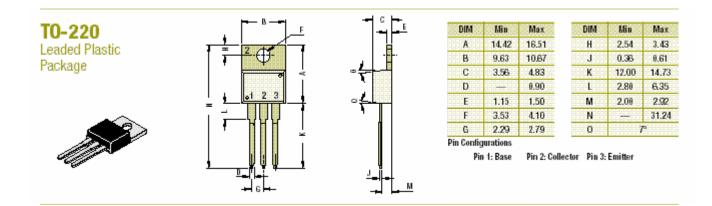
ELECTRICAL CHARACTERISTICS (T_c=25°C unless specified otherwise)

DESCRIPTION	SYMBOL	MBOL TEST CONDITION		TYP	MAX	UNIT
Collector Cut Off Current	I _{CBO}	V _{CB} =700V, I _E =0			100	μA
Emitter Cut Off Current	I _{EBO}	V _{EB} =9V, I _C =0			100	μA
DC Current Gain	h _{FE}	I _C =2A, V _{CE} =5V	15		35	
Collector Emitter Saturation Voltage	V _{CE (sat)}	I _C =5A, I _B =1A			1.0	V
Base Emitter Saturation Voltage	V _{BE (sat)}	I _C =5A, I _B =1A			1.5	V
Transition Frequency	f⊤	V _{CE} =10V, I _C =0.5A	5.0			MHz
Storage Time	t _s	I _C =0.5A	3.0		6.0	μs
Diode forward Voltage	V_{FEC}	I _F =2A			2.0	V

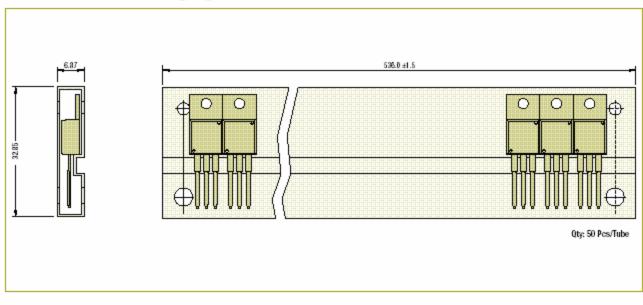
CDL13007DRev 200410E

CDL13007D

TO220 Plastic Package



T0-220 Series Packaging Tube



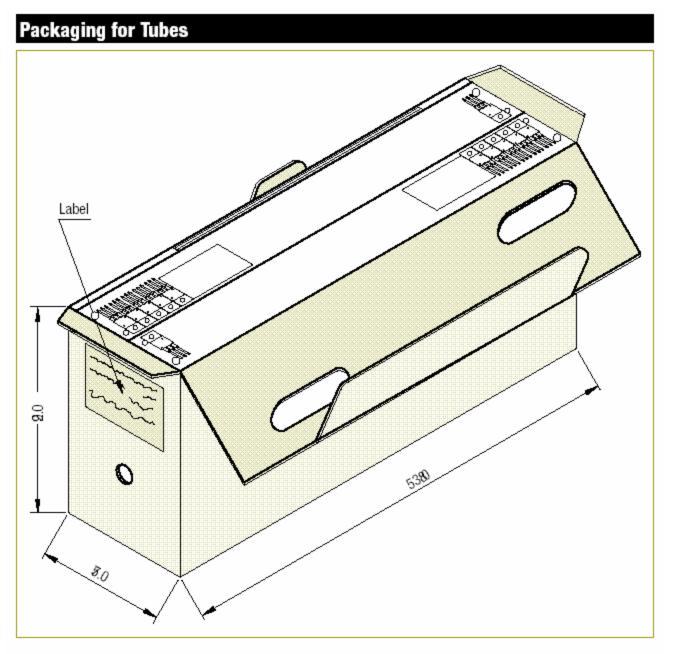
Packaging dimensions, tube dimensions and quantity/tube are approximate and subject to change.

Packaging Specifications									
I & A: Tape and Ammo Pack;	T & R: Tape and Reel; Bulk	: Loose in Poly Bags; Tube:	: Tube and Carton	; K: 1,000					
Package / Case Type	Packaging Type	Std. Packing	Inner Carton			Outer Carton			
		Qty	Oty	Size L x W x H	Gross Weight	Oty	Size L x W x H	Gross Weight	
				(cm)	(Kg)		(cm)	(Kg)	
continued from previous	r page								
TO-220	Bulk	1,000	1K	19x19x8	2.0	10K	46 x 38 x 22	21.6	
	Tube	1,000 (50 pcs/tube)	1K	55 x 8 x 10	2.8	10K	55 x 35 x 27	28.3	

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TO220 Plastic Package



Packaging dimensions/carton dimensions are approximate. Illustration shows packaging box for TO-220 Series. For dimensions of other tube packaging, please refer to Packaging Specifications page.

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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 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 are 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 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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