

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



SJE1349

TO-220

Plastic Package

NPN PLASTIC POWER TRANSISTOR

B

Power Linear and Switching Applications

ABSOLUTE MAXIMUM RATINGS				
DESCRIPTION	SYMBOL	VALUE	UNIT	
Collector Base Voltage	V _{CBO}	73	V	
Collector Emitter Voltage	V _{CEO}	63	V	
Emitter Base Voltage	V _{EBO}	7	V	
Collector Current	I _C	6	А	
Collector Current Peak	I _{CM}	10	А	
Base Current Continuous	I _B	2	А	
Power Dissipation upto T _c =25°C	PD	65	W	
Operating And Storage Junction Temperature Range	T _{j,} T _{stg}	- 65 to +150	°C	

THERMAL RESISTANCE DataSheet4U.com Junction to Ambient in free air R_{th (j-a)} 62.5 °C/W Junction to Case R_{th (j-c)} 1.92 °C/W

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

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Collector Emitter (sus) Voltage	*V _{CEO (sus)}	I _C =30mA, I _B =0	63			V
Collector Cut Off Current	I _{CBO}	V_{CB} =63V, I _E =0			0.3	mA
Collector Cut Off Current	I _{CES}	V _{CE} =73V, V _{BE} =0			0.3	mA
Emitter Cut Off Current	Ęво	V _{EB} =5.2V, I _C =0			0.9	mA
DC Current Gain	*h _{FE}	I _C =4A, V _{CE} =4V	43		100	
Collector Emitter Saturation Voltage	*V _{CE (sat)}	I _C =4A, I _B =480mA			1.07	V
		I _C =10A, I _B =1A			3.0	V

Switching Time

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Small Signal Current	h _{fe}	I _C =0.5A, V _{CE} =10V, f=1KHz	20			
Transition Frequency	f _T	I_{C} =0.5A, V_{CE} =10V, f=1MHz	3			MHz

*Pulse test $t_p \leq 300$ ms, Duty cycle $\leq 2\%$

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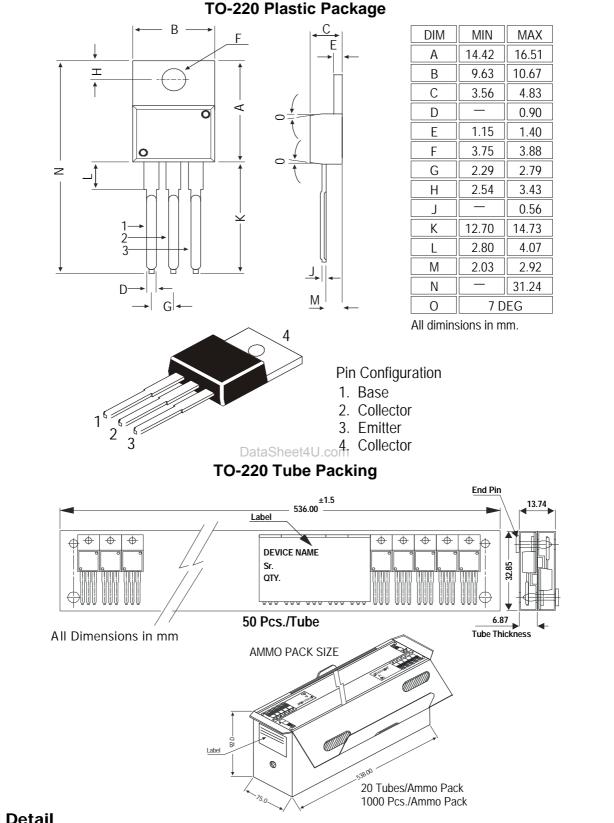
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Data Sheet

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Packing Detail

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PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
TO-220	200 pcs/polybag 50 pcs/tube	396 gm/200 pcs 120 gm/50 pcs	3" x 7.5" x 7.5" 3.5" x 3.7" x 21.5"	1.0K 1.0K	17" x 15" x 13.5" 19" x 19" x 19"	16.0K 10.0K	36 kgs 29 kgs

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Notes

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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 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 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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CDIL is a registered Trademark of Continental Device India Limited C-120 Naraina Industrial Area, New Delhi 110 028, India. Telephone + 91-11-2579 6150, 5141 1112 Fax + 91-11-2579 5290, 5141 1119 email@cdil.com www.cdilsemi.com

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