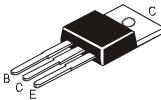


NPN EPITAXIAL PLANAR SILICON TRANSISTOR

CSC2078

TO-220 Plastic Package



ABSOLUTE MAXIMUM RATINGS

DESCRIPTION	SYMBOL	VALUE	UNIT
Collector Base Voltage	V _{CBO}	80	V
Collector Emitter Voltage	V _{ceo}	75	V
Emitter Base Voltage	V _{EBO}	5	v
Collector Current	I _c	3	Α
Collector Current (Pulse)	I _{CP}	5	Α
Collector Dissipation	Б	1.2	w
T _c =50°C	P _c	10	w
Junction Temperature	T	150	°C
Storage Temperature Range	T _{stg}	- 55 to +150	℃

ELECTRICAL CHARACTERISTICS (T $_{A}$ =25°C unless specified otherwise)

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Collector Base Breakdown Voltage	V _{сво}	l _c =100mA	80			V
Collector Emitter Breakdown Voltage	V _{CEO}	l _c =1mA	75			V
Emitter Base Breakdown Voltage	V _{EBO}	l _e =100 m A	5			V
Collector Cut Off Current	I _{CBO}	V _{CB} =40V, I _E =0			10	mA
Emitter Cut Off Current	I _{EBO}	V _{EB} =4V, I _C =0			10	mA
DC Gain	h _{FE}	Ι _c =0.5Α, V _{ce} =5V	25		200	
Collector Emitter Saturation Voltage	V _{CE (sat)}	I _c =1A, I _B =0.1A			0.6	V
Base Emitter Saturation Voltage	V _{BE (sat)}	I _с =1А, I _в =0.1А			1.2	V

hFE Classification	B '= (25-50), 'C '= (40-80), 'D '= (60-120), 'E '= (100-200)
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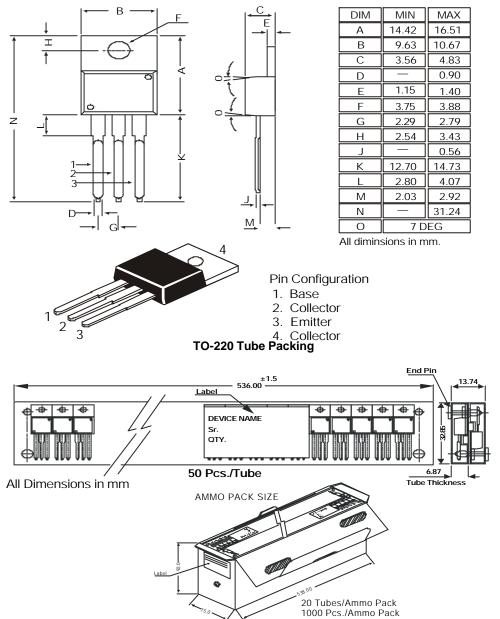
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CSC2078 TO-220 Plastic Package

TO-220 Plastic Package



Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
TO-220/FP	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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Customer Notes



CSC2078 TO-220 Plastic Package

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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