查询C45C8供应商





### Continental Device India Limited

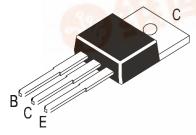
An ISO/TS16949 and ISO 9001 Certified Company

# PNP PLASTIC POWER TRANSISTOR



C45C8

TO-220 Plastic Package



# Medium Power Switching and Amplifier Applications

Complementary C44C8

### ABSOLUTE MAXIMUM RATINGS

DESCRIPTION	SYMBOL	VALUE 🔜 📥	UNIT
		A Real Street In	W.D.L.
Collector- Emitter Voltage	V <sub>CES</sub>	70	V
Collector- Emitter Voltage	V <sub>CEO</sub>	60	V
Emitter- Base Voltage	V <sub>EBO</sub>	5	V
Collector Current Continuous	I <sub>C</sub> ON	4	A
Peak *	I <sub>CM</sub>	6	
Base Current Continuous	I <sub>B</sub>	2	A
Power Dissipation T <sub>A</sub> =25°C	P <sub>D</sub>	1.67	W
T <sub>c</sub> =25°C		30	
Operating & Storage Junction	T <sub>i, Tstg</sub>	- 55 to +150	0°
Temperature Range	17 5		COM COM

### **Thermal Resistance**

Junction to Ambient	R <sub>th</sub> (j-a)	75	°C/W
Junction to Case	R <sub>th</sub> (j-c)	4.2	°C/W

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

DESCRIPTION	SYMBOL TEST CONDITION		MIN	TYP	MAX	UNIT	
					13100		
Collector- Emitter Sustaing Voltage	V <sub>CEO(sus)*</sub>	I <sub>C</sub> =100mA, I <sub>B</sub> =0	60	1.0	.00	V	
Collector Cut Off Current	CES	V <sub>CE</sub> =Rated V <sub>CES</sub>	1	N.OZS	10	μA	
Emitter Cut Off Current	Ево	$V_{EB}=5V, I_{C}=0$	- W		100	μA	
DC Current Gain	h <sub>FE</sub> *	I <sub>C</sub> =0.2A, V <sub>CE</sub> =1V	40		120		
	17,00	I <sub>C</sub> =1A, V <sub>CE</sub> =1V	20				
Collector Emitter Saturation Voltage	V <sub>CE(sat)</sub> *	I <sub>C</sub> =1A, I <sub>B</sub> =50mA			0.5	V	
Base Emitter Saturation Voltage	V <sub>BE(sat)</sub> *	I <sub>C</sub> =1A, I <sub>B</sub> =100mA			1.3	V	

### **Dynamic Characteristics**

Collector Capacitance	C <sub>cbo</sub>	$V_{CB}=10V, I_{E}=0$			125	pF	
		f=1MHz					
Current Gain Bandwidth Product	f <sub>T</sub>	V <sub>CE</sub> =4V, I <sub>C</sub> =20mA		40		MHz	
*Relaa Taat Dulaa Width 200-a Duty Cyala 20/							

\*Pulse Test Pulse Width<300ms, Duty Cycle<2%



# PNP PLASTIC POWER TRANSISTOR

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B<sup>C</sup>C<sub>E</sub>

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

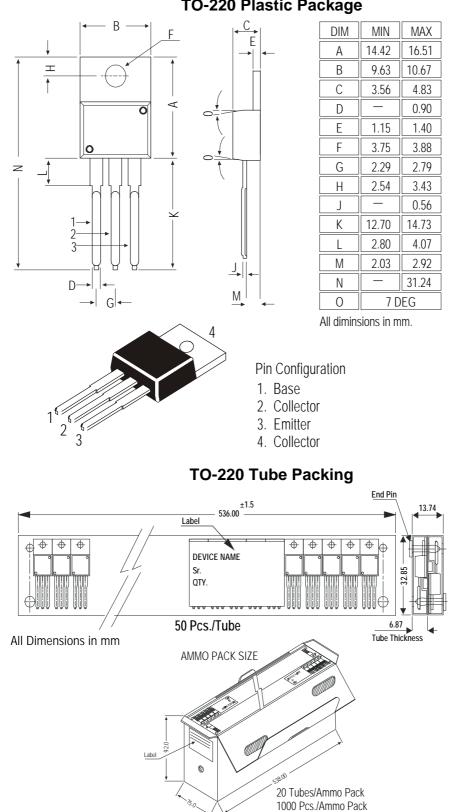
# Switching Time

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	ТҮР	MAX	UNIT
Delay Time + Rise Time	t <sub>d</sub> + t <sub>r</sub>	I <sub>C</sub> =1A, I <sub>B1</sub> =1 <sub>B2</sub> =0.1A		50		ns
Storage Time	t <sub>s</sub>	V <sub>CC</sub> =30V, tp=25µs		500		ns
Fall Time	t <sub>f</sub>			50		

TO-220 Plastic Package

# C45C8

# 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 Oty Gr W		GrWt
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

Notes

### C45C8

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 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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C45C8Rev 071101