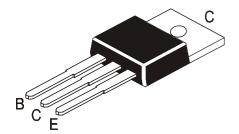


Continental Device India Limited

An IS/ISO 9002 and IECQ Certified Manufacturer



SILICON EPITAXIAL POWER TRANSISTORS



MJE15032 NPN MJE15033 PNP

TO - 220 Plastic Package

High- Frequency Drivers in Audio Amplifier.

ABSOLUTE MAXIMUM RATINGS

DESCRIPTION	SYMBOL	VALUE	UNIT
Collector Base Voltage	V_{CBO}	250	V
Collector Emitter Voltage	$V_{\sf CEO}$	250	V
Emitter Base Voltage	V_{EBO}	5	V
Collector Current - Continuous	I_{C}	8	Α
- Peak		16	Α
Base Current	I_{B}	2	Α
Total Power Dissipation @ T _c =25°C	P_{D}	50	W
Derate Above 25°C		0.4	W/°C
Total Power Dissipation @ T _A =25°C	P_{D}	2	W
Derate Above 25°C		0.016	W/°C
Operating and Storage Junction	$T_{i}T_{stq}$	-65 to +150	°C
Temperature Range	J		
THERMAL RESISTANCE			
From Junction to Ambient	R _{th (j-a)}	62.5	°C/W
From Junction to Case	R _{th (j-c)}	2.5	°C/W

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

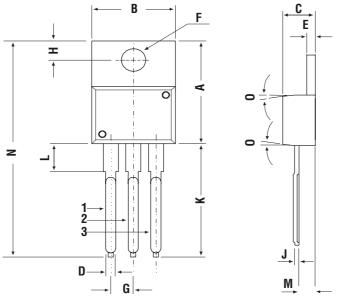
DESCRIPTION	SYMBOL	TEST CONDITION	MIN	MAX	UNIT	
Collector Emitter sustaining Voltage	V _{CFO} (sus) *	I _C =10mA, I _B =0	250	_	V	
Collector Cut off Current	I _{CBO}	V _{CB} =150V, I _E =0	-	10	μA	
Emitter Cut off Current		$V_{BE}=5V,I_{C}=0$	-	10	μ Α	
DC Current Gain		I_{C} =0.5A, V_{CE} =5V	50	-	•	
	. –	I _C =1.0A, V _{CE} =5V	50	_		
		I_{C} =2.0A, V_{CE} =5V	10	-		
Collector Emitter Saturation Voltage	$V_{CE(Sat)}$ *	I _C =1A, I _B =0.1A	-	0.5	V	
Base Emitter on Voltage		I _C =1.0A, V _{CE} =5V	-	1.0	V	
DYNAMIC CHARACTERISTICS						
Current Gain - Bandwidth Product **	f _T	I_C =500mA, V_{CE} =10V f_{test} =1MHz	30	-	MHz	

^{*} Pulse Test: Pulse Width ≤ 300µs, Duty Cycle ≤2 %

^{**} f_T= Ih_{fe}I. f_{test}.

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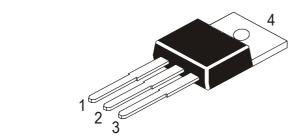


DIM	MIN	MAX		
Α	14.42	16.51		
В	9.63	10.67		
С	3.56	4.83		
D	_	0.90		
Е	1.15	1.40		
F	3.75	3.88		
G	2.29	2.79		
Н	2.54	3.43		
J	_	0.56		
K	12.70	14.73		
L	2.80	4.07		
М	2.03	2.92		
N	_	31.24		
0	7 DEG			

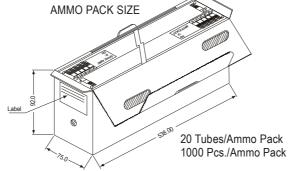
All diminsions in mm.

Pin Configuration

- 1. Base
- 2. Collector
- 3. Emitter
- 4. Collector



TO-220 Tube Packing End Pin DEVICE NAME Sr. QTY. All D in ensions in m m AMMO PACK SIZE



Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
T0-220	200 pcs/polybag 50 pcs/tube		3" x 7.5" x 7.5" 3.5" x 3.7" x 21.5"	1K 1K	17" x 15" x 13.5" 19" x 19" x 19"	16K 10K	36 kgs 28 kgs

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 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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