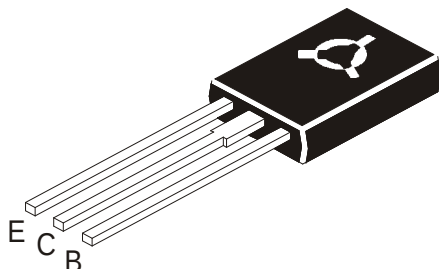


NPN EPITAXIAL SILICON POWER TRANSISTOR

MJE340

TO126

Plastic Package



For use in High Voltage General Purpose Applications

ABSOLUTE MAXIMUM RATINGS

DESCRIPTION	SYMBOL	VALUE	UNIT
Collector Emitter Voltage	V_{CEO}	300	V
Collector Base Voltage	V_{CBO}	300	V
Emitter Base Voltage	V_{EBO}	3.0	V
Collector Current Continuous	I_C	500	mA
Power Dissipation @ $T_a=25^\circ\text{C}$ Derate above 25°C	P_D	1.25 10	W mW/ $^\circ\text{C}$
Power Dissipation @ $T_c=25^\circ\text{C}$ Derate above 25°C	P_D	20 0.16	W W/ $^\circ\text{C}$
Operating And Storage Junction Temperature Range	T_j, T_{stg}	- 65 to +150	$^\circ\text{C}$

THERMAL CHARACTERISTICS

Junction to Ambient in free air	$R_{th(j-a)}$	100	$^\circ\text{C/W}$
Junction to Case	$R_{th(j-c)}$	6.25	$^\circ\text{C/W}$

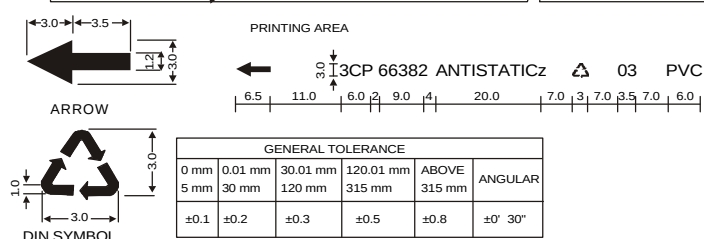
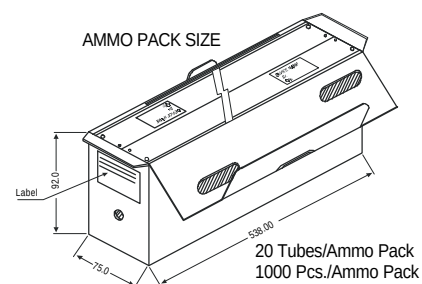
ELECTRICAL CHARACTERISTICS ($T_c=25^\circ\text{C}$ unless specified otherwise)

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	MAX	UNIT
Collector Emitter Sustaining Voltage	$*V_{CEO(sus)}$	$I_C=1\text{mA}, I_B=0$	300		V
Collector Cut Off Current	I_{CBO}	$V_{CB}=300\text{V}, I_E=0$		100	μA
Emitter Cut Off Current	I_{EBO}	$V_{EB}=3\text{V}, I_C=0$		100	μA
DC Current Gain	h_{FE}	$I_C=50\text{mA}, V_{CE}=10\text{V}$	30	240	

The drawing consists of two parts. The left part is a top-down view of a mechanical assembly. It features a central circular component with four trapezoidal protrusions. This component is mounted on a rectangular base of width A and height B . The distance from the top edge of the base to the center of the circular component is N . The distance from the bottom edge of the base to the center is P . Below the base, there are three vertical rods. The distance from the bottom edge of the base to the top of these rods is S . The rods are labeled 1, 2, and 3 from left to right. The distance between the centerlines of rods 1 and 2 is D . The distance between the centerlines of rods 2 and 3 is E . The total length of the rods is L . The distance between the centerlines of rods 1 and 3 is G . The right part is a side view of the assembly. It shows a vertical rod of diameter C . A force F is applied to the rod at a distance M from the bottom. The rod is supported by a base at the bottom.

DIM	MIN	MAX
A	7.4	7.8
B	10.5	10.8
C	2.4	2.7
D	0.7	0.9
E	2.25 TYP.	
F	0.49	0.75
G	4.5 TYP.	
L	15.7 TYP.	
M	1.27 TYP.	
N	3.75 TYP.	
P	3.0	3.2
S	2.5 TYP.	

1. Emitter
2. Collector
3. Base



Notes:

1. All print in black.
2. All text in Helvetica medium font.

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight /Qty	Size	Qty	Size	Qty	Gr Wt
TO-126 Bulk	500 pcs/polybag	340 gm/500 pcs	3" x 7.5" x 7.5"	2K	17" x 15" x 13.5"	32K	31 kgs
TO-126 Tube	50 pcs/tube	73 am/50 pcs	3" x 3.7" x 21.5"	1K	19" x 19" x 19"	10K	15 kas

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).

CDIL strives for continuous improvement and reserves the right to change the specifications of its products without prior notice.



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