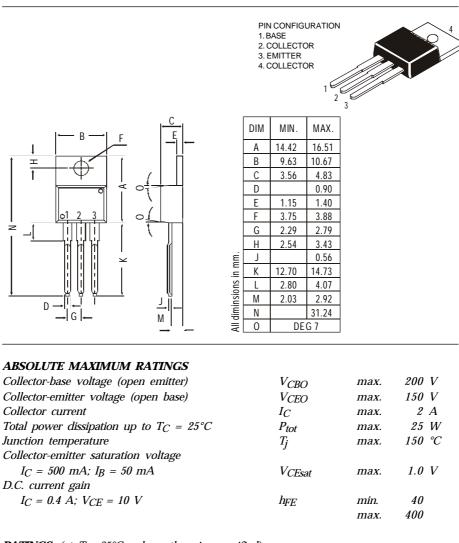




TO-220 Plastic Package

CSD401

CSD401 NPN PLASTIC POWER TRANSISTOR Complementary CSB546 TV Vertical Deflection Output Applications



RATINCS (at $T_A=25\,^{\circ}$ C unless otherwise specified)Limiting valuesCollector-base voltage (open emitter) V_{CBO} max.200 VCollector-emitter voltage (open base) V_{CEO} max.150 VEmitter-base voltage (open collector) V_{EBO} max.5.0 V

Collector current Total power dissipation up to $T_C = 25^{\circ}C$ Junction temperature Storage temperature	I _C P _{tot} T _j T _{stg}	max. max. max. -65 to	2 25 150 +150	W C
CHARACTERISTICS $T_{amb} = 25^{\circ}C$ unless otherwise specified				
Collector cutoff current				
$I_E = 0; V_{CB} = 150 V$	I _{CBO}	max.	50	μA
Breakdown voltages				•
$I_C = 10 \text{ mA}; I_B = 0$	V_{CEO}	min.	150	V
$I_C = 500 \ \mu A; I_E = 0$	V_{CBO}	min.	200	V
$I_E = 500 \ \mu A; \ I_C = 0$	V_{EBO}	min.	5.0	V
Saturation voltages				
$I_C = 500 \text{ mA}; I_B = 50 \text{ mA}$	VCEsat	max.	1.0	V
D.C. current gain				
$I_C = 0.4 \; A; \; V_{CE} = 10 \; V^{**}$	h_{FE}	min.	40	
		max.	400	
Transition frequency				
$I_C = 0.4 A; V_{CE} = 10 V$	f_T	typ.	5	MHz

** h_{FE} classification: R: 40-80 O: 70-140 Y: 120-240 G: 200-400

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 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

Data Sheet