TÜV MANAGEMENT SERVIC RANGE



An ISO/TS 16949, ISO 9001 and ISO 14001 Certified Company

NPN/PNP SILICON PLANAR TRANSISTORS



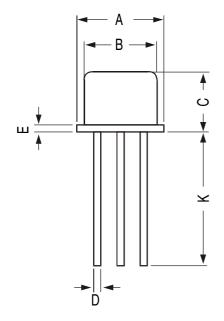
CL100S NPN CK100S PNP TO-39

ABSOLUTE MAXIMUM RATINGS

DESCRIPTION	SYMBOL	VALUE	UNIT
Collector -Emitter Voltage	VCEO	50	V
Collector -Base Voltage	VCBO	60	V
Emitter Base Voltage	VEBO	5.0	V
Collector Current	ICM	1.0	Α
Power Dissipation @ Ta=25 deg C	PD	800	mW
Derate Above 25 deg C		5.33	mW/deg C
Power Dissipation @ Tc=25 deg C	PD	3.0	W
Derate Above 25 deg C		20	mW/deg C
Operating & Storage Junction	Tj, Tstg	-55 to +175	deg C
Temperature Range			

ELECTRICAL CHARACTERISTICS (Ta=25 deg C Unless Otherwise Specified) **DESCRIPTION SYMBOL TEST CONDITION** UNIT MIN TYP MAX **Collector -Emitter Voltage VCEO** IC=1mA, IB=0 50 V IC=100uA, IE=0 **Collector -Base Voltage VCBO** 60 ٧ **Emitter Base Voltage VEBO** IE=100uA, IC=0 5.0 V **Collector Cut off Current** VCB=40V, IE=0 **ICBO** 1.0 uΑ **Emitter Cut off Current IEBO** VEB=5V, IC=0 1.0 uΑ **DC Current Gain** hFE* 2mA, VCE=5V 20 Collector -Emitter (sat) Voltage IC=150mA, IB=15mA VCE(sat)* 0.60 *Pulse Condition : Pulse Width =300us, Duty Cycle=2%

TO-39 Metal Can Package

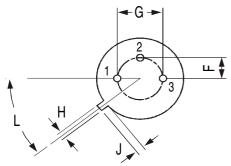


	וווט	IVITIN	IVIAA	
All dimensions are in mm	Α	8.50	9.39	
	В	7.74	8.50	
	С	6.09	6.60	
	D	0.40	0.53	
	Е	1	0.88	
	F	2.41	2.66	
	G	4.82	5.33	
	Н	0.71	0.86	
	J	0.73	1.02	
	K	12.70	-	
	L	42 DEG	48 DEG	
- '				

MIN

млх

DIM





PIN CONFIGURATION

- 1. EMITTER
- 2. BASE
- 3. COLLECTOR

Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
TO-39	500 pcs/polybag	540 gm/500 pcs	3" x 7.5" x 7.5"	20.0K	17" x 15" x 13.5"	32.0K	40 kgs

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 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).

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.cdisemi.com