

PNP SILICON PLANAR TRANSISTOR



CP100 CN100

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TO-237 Plastic Package

CN100 And CP100 Are Medium Power Transitors Suitable For a Wide Range of Medium Voltage and Current Applications.

Complementary CN100

ABSOLUTE MAXIMUM RATINGS(Ta=25°C unless specified otherwise)

DESCRIPTION	SYMBOL	VALUE	UNIT
Collector -Base Voltage	V _{CBO}	60	v
Collector -Emitter Voltage	V _{CEO}	50	v
Emitter Base Voltage	VEBO	7	v
Collector Current Continuous	I _C	1	A
Power Dissipation @Ta=25°C	PTA	800	mW
Derate Above 25°C		6	mW/ºC
Operating and Storage Junction	Tj, T _{stg}	-55 to +150	°C
Temperature Range			

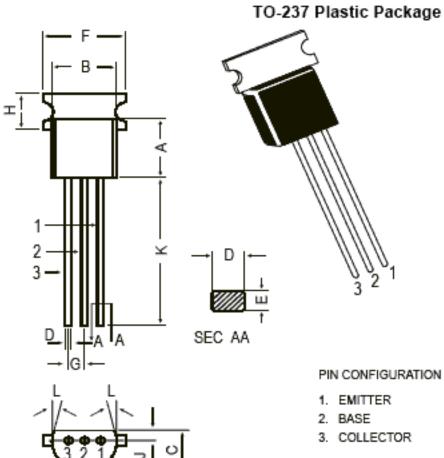
ELECTRICAL CHARACTERISTICS (Ta=25°C unless specified otherwise)

DESCRIPTION	SYMBOL	TEST CONDITION	VALUE		_	
			MIN	MAX	UNIT	
Collector Emitter Breakdown Voltage	V _{CEO} *	I _C =10mA, I _B =0	50		v	
Collector -Base Breakdown Voltage	Vceo	I _C =100μΑ, I _E =0	60		v	
Emitter-Base Breakdown Voltage	VEBO	I _E =100μΑ, I _C =0	7		v	
Collector Leakage Current	I _{CBO}	V _{CB} =40V, I _E =0		50	nA	
Emitter Leakage Current	I _{EBO}	V _{EB} =5V, I _E =0		25	nA	
DC Current Gain	h _{FE} *	I _c =150mA,V _{ce} =1V	50	280		
Collector Emitter Saturation Voltage	V _{CE(sat)} *	I _c =150mA,I _B =15mA		0.6	v	
Base Emitter On Voltage	V _{BE(on)}	I _c =150mA,V _{CE} = 1V		0.9	v	

DESCRIPTION	SYMBOL	TEST CONDITION	VALUE			
			MIN	TYP	MAX	UNIT
DYNAMIC CHARACTERISTICS	¢.					
Transition Frequency	f _T	V _{CE} =10V, I _C =50mA, f=20MHz		80		
*Pulse Condition: Pulse Width	<u><</u> 300µs, Duty Cycle	<u>e ≤</u> 2%				
CLASSIFICATION	А	в				
hFE	50-120	100-200				

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	DIM	MIN.	MAX.	
	Α	4.32	5.33	
	В	4.45	5.20	
	С	3.18	4.19	
	D	0.41	0.55	
	Е	0.35	0.50	
Ľ.	F	_	5.40	
in n	G	1.14	1.40	
SIIC	Н	_	2.54	
nsić	К	12.70		
diminsions in mm.	L	5 DEG		
All (J	1.14	1.53	

PIN CONFIGURATION

- 1. EMITTER
- 3. COLLECTOR

Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
TO-237 Bulk TO-237 T&A	1K/polybag 2K/ammo box		3" x 7.5" x 7.5" 12.5" x 8" x 1.8"	5K 2K	17" x 15" x 13.5" 17" x 15" x 13.5"	80K 32K	26.2 kgs 13.8 kgs

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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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CP100/ CN100Rev280801