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PNP SILICON PLANAR TRANSISTOR WWW.DZSC.COM



CP100 CN100

TO-237 Plastic Package

CN100 And CP100 Are Medium Power Transitors Suitable For a Wide Range of Medium Voltage and Current Applications. WWW.D2

Complementary CN100

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DESCRIPTION	SYMBOL	VALUE	UNIT
Collector -Base Voltage	V _{CBO}	60 0750	v
Collector -Emitter Voltage	V _{CEO}	50	v
Emitter Base Voltage	VEBO	7	v
Collector Current Continuous	lo	1	A
Power Dissipation @Ta=25°C	PTACOM	800	mW
Derate Above 25°C		6	mW/⁰C
Operating and Storage Junction	Tj. Tstg	-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	VCBO	I _c =100μA, 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

SYMBOL	TEST CONDITION	VALUE			
5 121		MIN	TYP	MAX	
5	7.84				
WW.DL					
f _T	V _{CE} =10V, I _C =50mA, f=20MHz		80		
00µs, Duty Cycle	<u>e ≤</u> 2%				
А	в				
50-120	100-200				
	f _T 00μs, Duty Cycle	f=20MHz 200µs, Duty Cycle ≤2% A B	MIN f _T V _{CE} =10V, I _C =50mA, f=20MHz 00μs, Duty Cycle ≤2% A B	MIN TYP f _T V _{CE} =10V, I _C =50mA, f=20MHz 80 00µs, Duty Cycle ≤2% 80	MIN TYP MAX f _T V _{CE} =10V, I _C =50mA, f=20MHz 80 00µs, Duty Cycle ≤2% 80

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

PIN CONFIGURATION

Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
TO-237 Bulk	1K/polybag	240 gm/1K pcs	3" x 7.5" x 7.5"	5K	17" x 15" x 13.5"	80K	26.2 kgs
T0-237 T&A	2K/ammo box	725 gm/2K pcs	12.5" x 8" x 1.8"	2K	17" x 15" x 13.5"	32K	13.8 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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