MJE200 NPN MJE210 PNP

COMPLEMENTARY SILICON POWER TRANSISTORS



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR MJE200, MJE210 types are complementary silicon transistors designed for high gain amplifier applications.





MAXIMUM RATINGS: (T _A =25°C)		SYMBOL V _{CBO}	40	UNITS V			
	Base Voltage -Emitter Voltage -ase Voltage us Collector Current		25	V			
	· ·	V _{CEO}	8.0	V			
	· ·	V _{EBO}		-			
		l _C	5.0	A			
Peak Collector Current		ICM	10	A			
Continuous Base Current		lΒ	1.0	A			
Power Dissipation		P _D	1.5	W			
Power Dissipation (T _C =25°C)		P_{D}	15	W			
Operating and Storage Junction Temperature		T _J , T _{stg}	-65 to +150	°C			
Thermal Resistance		$\Theta_{\sf JA}$	83.4	°C/W			
Thermal Resistance		Θ JC	8.34	°C/W			
ELECTRICAL CHARACTERISTICS: (T _C =25°C unless otherwise noted)							
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS			
ICBO	V _{CB} =40V		100	nA			
I _{CBO}	V _{CB} =40V, T _J =125°C		100	μΑ			
I _{EBO}	V _{EB} =8.0V		100	nA			
BVCEO	I _C =10mA	25		V			
VCE(SAT)	I _C =500mA, I _B =50mA		0.3	V			
VCE(SAT)	I _C =2.0A, I _B =200mA		0.75	V			
V _{CE(SAT)}	I _C =5.0A, I _B =1.0A		1.8	V			
V _{BE(SAT)}	I _C =5.0A, I _B =1.0A		2.5	V			
V _{BE(ON)}	V_{CE} =1.0V, I_{C} =2.0A		1.6	V			
h _{FE}	V _{CE} =1.0V, I _C =500mA	70					
h _{FE}	V _{CE} =1.0V, I _C =2.0A	45	180				
h_{FE}	V _{CE} =2.0V, I _C =5.0A	10					
f _T	V _{CE} =10V, I _C =100mA, f=10MHz	65		MHz			
C_{ob}	V _{CB} =10V, I _E =0, f=100kHz (MJE20	00)	80	pF			
C _{ob}	V _{CB} =10V, I _E =0, f=100kHz (MJE21	10)	120	pF			

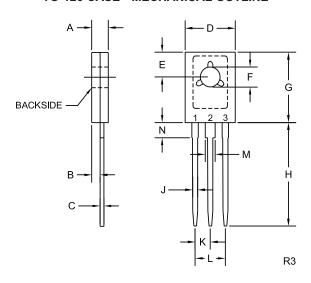
R1 (2-May 2012)

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TO-126 CASE - MECHANICAL OUTLINE



LEAD CODE:

- 1) Emitter
- 2) Collector
- 3) Base

MARKING:

FULL PART NUMBER

DIMENSIONS						
	INCHES		MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
Α	0.094	0.110	2.40	2.80		
В	0.050		1.27			
С	0.015	0.030	0.38	0.75		
D	0.291	0.335	7.40	8.50		
Е	0.148		3.75			
F	0.118	0.134	3.00	3.40		
G	0.413	0.472	10.50	12.00		
Н	0.618		15.70			
J	0.024	0.035	0.62	0.90		
K	0.089		2.25			
Ĺ	0.177		4.50			
М	0.045	0.055	1.14	1.40		
N	0.083		2.10			

TO-126 (REV:R3)

OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- · Inventory bonding
- · Consolidated shipping options

- · Custom bar coding for shipments
- · Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- · Custom electrical curves
- Environmental regulation compliance
- · Customer specific screening
- · Up-screening capabilities

- · Special wafer diffusions
- · PbSn plating options
- Package details
- · Application notes
- · Application and design sample kits
- · Custom product and package development

CONTACT US

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