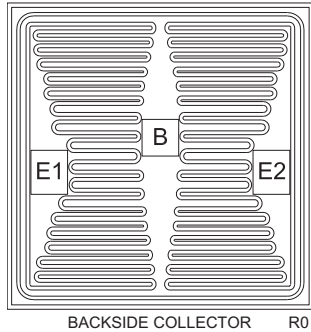


CP753V-MJE210

PNP - High Current Transistor Die

5.0 Amp, 25 Volt

The CP753V-MJE210 is a silicon PNP transistor designed for high current applications.



MECHANICAL SPECIFICATIONS:

Die Size	65.7 x 65.7 MILS
Die Thickness	7.1 MILS
Base Bonding Pad Size	7.9 x 7.9 MILS
Emitter 1 Bonding Pad Size	7.9 x 8.7 MILS
Emitter 2 Bonding Pad Size	7.9 x 8.7 MILS
Top Side Metalization	Al-Si – 30,000Å
Back Side Metalization	Ti/Ni/Ag – 2,000Å/3,000Å/20,000Å
Scribe Alley Width	1.96 MILS
Wafer Diameter	5 INCHES
Gross Die Per Wafer	3,878

MAXIMUM RATINGS: (T_A=25°C)

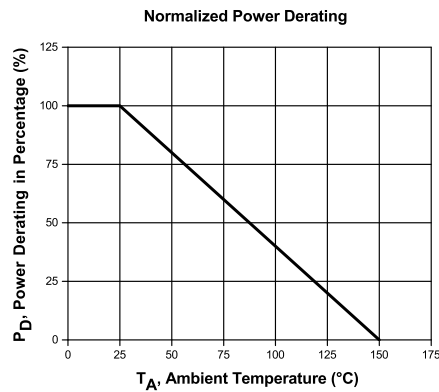
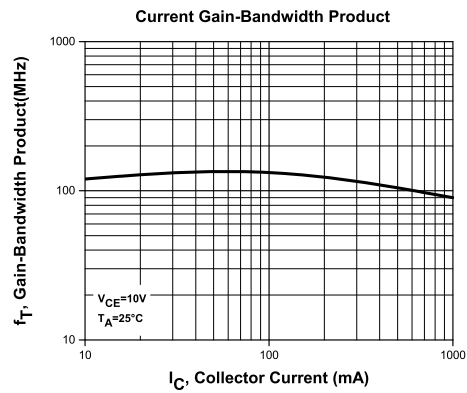
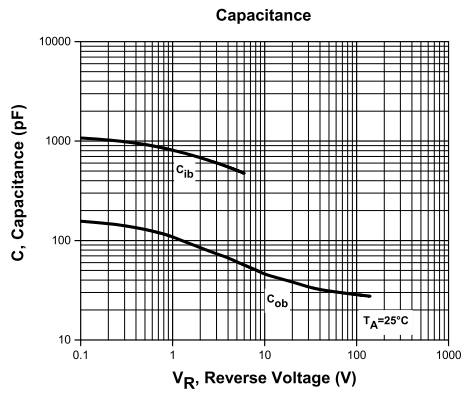
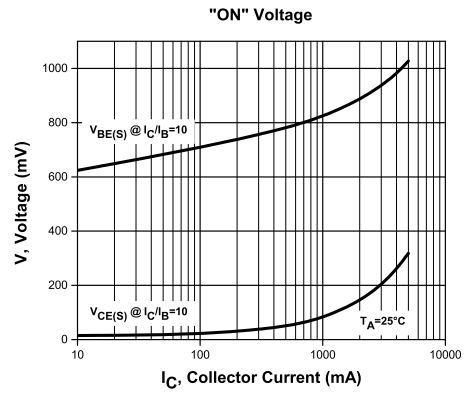
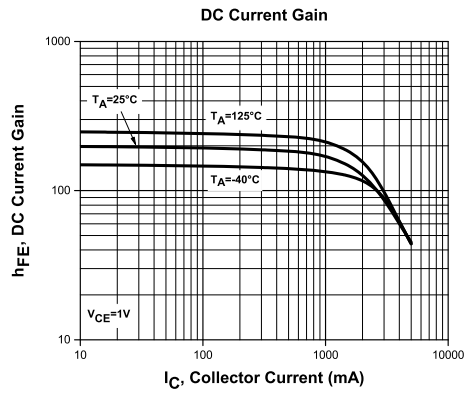
	SYMBOL		UNITS
Collector-Base Voltage	V _{CBO}	40	V
Collector-Emitter Voltage	V _{CEO}	25	V
Emitter-Base Voltage	V _{EBO}	8.0	V
Continuous Collector Current	I _C	5.0	A
Peak Collector Current	I _{CM}	10	A
Continuous Base Current	I _B	1.0	A
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C

ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I _{CBO}	V _{CB} =40V		100	nA
I _{EBO}	V _{EB} =8.0V		100	nA
BV _{CEO}	I _C =10mA	25		V
V _{CE(SAT)}	I _C =500mA, I _B =50mA		0.3	V
V _{CE(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		120	pF

CP753V-MJE210

Typical Electrical Characteristics



BARE DIE PACKING OPTIONS



BARE DIE IN TRAY (WAFFLE) PACK

CT: Singulated die in tray (waffle) pack.
(example: CP211-PART NUMBER-CT)

CM: Singulated die in tray (waffle) pack 100% visually inspected as per MIL-STD-750, (method 2072 transistors, method 2073 diodes).
(example: CP211-PART NUMBER-CM)



UNSAWN WAFER

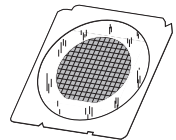
WN: Full wafer, unsawn, 100% tested with reject die inked.
(example: CP211-PART NUMBER-WN)



SAWN WAFER ON PLASTIC RING

WR: Full wafer, sawn and mounted on plastic ring,
100% tested with reject die inked.
(example: CP211-PART NUMBER-WR)

Please note: Sawn Wafer on Metal Frame (WS) is possible as a special order. Please contact your Central Sales Representative at 631-435-1110.



Visit the Central website for a complete listing of specifications:
www.centrasemi.com/bdspecs

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

REQUESTING PRODUCT PLATING

1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

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