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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMPTA06 and CMPTA56 are complementary silicon transistors manufactured by the epitaxial planar process, epoxy molded in a surface mount package, designed for small signal general purpose and switching applications.



CMPTA06 NPN CMPTA56 PNP

SURFACE MOUNT

COMPLEMENTARY

SILICON TRANSISTORS

MARKING CODES: CMPTA06: C1G CMPTA56: C2G

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Collector-Base Voltage	V _{CBO}	80	V
Collector-Emitter Voltage	V _{CEO}	80	V
Emitter-Base Voltage	V _{EBO}	4.0	V
Continuous Collector Current	۱ _C	500	mA
Continuous Base Current	۱ _B	100	mA
Peak Base Current	I _{BM}	200	mA
Power Dissipation	PD	350	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +175	°C
Thermal Resistance	Θ_{JA}	429	°C/W

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

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I _{CBO}	V _{CB} =80V		100	nA
I _{CBO}	V _{CB} =80V, T _A =150°C		20	μA
ICEO	V _{CE} =60V		100	nA
BVCEO	I _C =1.0mA	80		V
BVEBO	Ι _Ε =100μΑ	4.0		V
V _{CE(SAT)}	I _C =100mA, I _B =10mA		0.25	V
V _{BE(ON)}	V _{CE} =1.0V, I _C =100mA		1.20	V
h _{FE}	V _{CE} =1.0V, I _C =10mA	100		
h _{FE}	V _{CE} =1.0V, I _C =100mA	100		
fΤ	V _{CE} =2.0V, I _C =10mA, f=100MHz (CMPTA06)	100		MHz
f _T	V _{CE} =1.0V, I _C =100mA, f=100MHz(CMPTA56)	50		MHz

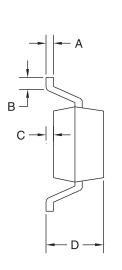
R6 (1-February 2010)

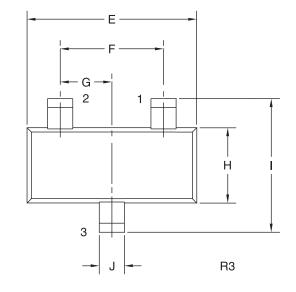




SURFACE MOUNT COMPLEMENTARY SILICON TRANSISTORS

SOT-23 CASE - MECHANICAL OUTLINE





LEAD CODE:				
1) Base				
2) Emitter				
3) Collector				

MARKING CODES: CMPTA06: C1G CMPTA56: C2G

DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
А	0.003	0.007	0.08	0.18			
В	0.006	-	0.15	-			
С	-	0.005	-	0.13			
D	0.035	0.043	0.89	1.09			
E	0.110	0.120	2.80	3.05			
F	0.075		1.90				
G	0.037		0.95				
Н	0.047	0.055	1.19	1.40			
	0.083	0.098	2.10	2.49			
J	0.014	0.020	0.35	0.50			

SOT-23 (REV: R3)

R6 (1-February 2010)

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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

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

· Custom product packing

- PbSn plating options
- Package details
- Application notes
- · Application and design sample kits

Custom bar coding for shipments

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).
- 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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