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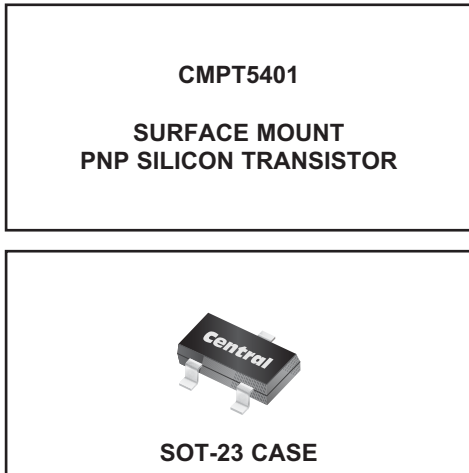
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[Central Semiconductor Corp](#)

[CMPT5401 TR](#)

For any questions, you can email us directly:

sales@integrated-circuit.com



www.centralemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMPT5401 type is a PNP silicon transistor manufactured by the epitaxial planar process, epoxy molded in a surface mount package, designed for high voltage amplifier applications.

MARKING CODE: C2L

MAXIMUM RATINGS: (T_A=25°C)

Collector-Base Voltage
Collector-Emitter Voltage
Emitter-Base Voltage
Continuous Collector Current
Power Dissipation
Operating and Storage Junction Temperature
Thermal Resistance

SYMBOL		UNITS
V _{CB0}	160	V
V _{CEO}	150	V
V _{EBO}	5.0	V
I _C	600	mA
P _D	350	mW
T _J , T _{stg}	-65 to +150	°C
θ _{JA}	357	°C/W

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

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I _{CBO}	V _{CB} =120V		50	nA
I _{CBO}	V _{CB} =120V, T _A =100°C		50	µA
I _{EBO}	V _{EB} =3.0V		50	nA
BV _{CB0}	I _C =100µA	160		V
BV _{CEO}	I _C =1.0mA	150		V
BV _{EBO}	I _E =10µA	5.0		V
V _{CE(SAT)}	I _C =10mA, I _B =1.0mA		0.2	V
V _{CE(SAT)}	I _C =50mA, I _B =5.0mA		0.5	V
V _{BE(SAT)}	I _C =10mA, I _B =1.0mA		1.0	V
V _{BE(SAT)}	I _C =50mA, I _B =5.0mA		1.0	V
h _{FE}	V _{CE} =5.0V, I _C =1.0mA	50		
h _{FE}	V _{CE} =5.0V, I _C =10mA	60	240	
h _{FE}	V _{CE} =5.0V, I _C =50mA	50		
f _T	V _{CE} =10V, I _C =10mA, f=100MHz	100	300	MHz
C _{ob}	V _{CB} =10V, I _E =0, f=1.0MHz		6.0	pF
h _{fe}	V _{CE} =10V, I _C =1.0mA, f=1.0kHz	40	200	
N _F	V _{CE} =5.0V, I _C =250µA, R _S =1.0kΩ, f=10Hz to 15.7kHz		8.0	dB

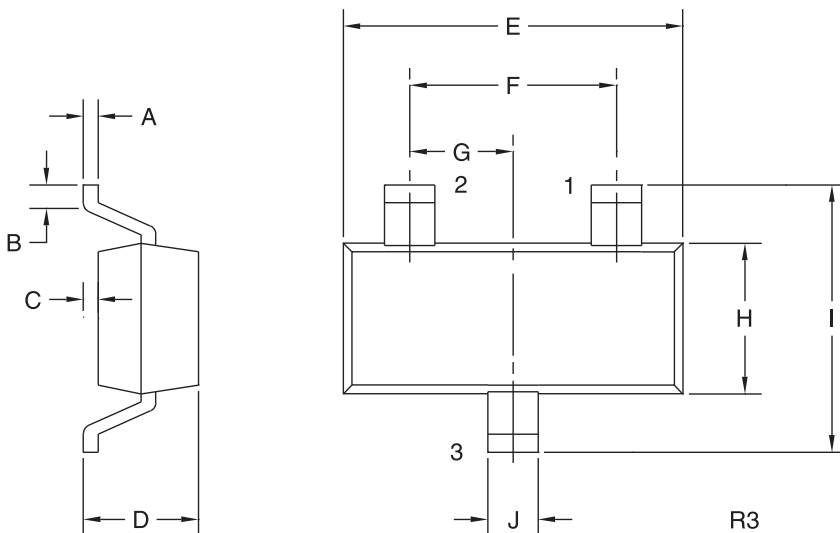
R6 (1-February 2010)

CMPT5401

SURFACE MOUNT
PNP SILICON TRANSISTOR



SOT-23 CASE - MECHANICAL OUTLINE



LEAD CODE:

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

MARKING CODE: C2L

SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.003	0.007	0.08	0.18
B	0.006	-	0.15	-
C	-	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	
H	0.047	0.055	1.19	1.40
I	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)

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

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