CMUT5401

SURFACE MOUNT SILICON PNP TRANSISTOR



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMUT5401 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: 4C5



SOT-523 CASE

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Collector-Base Voltage	V_{CBO}	160	V
Collector-Emitter Voltage	V_{CEO}	150	V
Emitter-Base Voltage	V_{EBO}	5.0	V
Continuous Collector Current	$I_{\mathbb{C}}$	600	mA
Power Dissipation	P_{D}	250	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C
Thermal Resistance	Θ_{JA}	500	°C/W

$\textbf{ELECTRICAL CHARACTERISTICS:} \ (T_{\mbox{\scriptsize A}} = 25 \mbox{°C unless otherwise noted})$

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I _{CBO}	V _{CB} =120V		50	nA
I _{CBO}	V _{CB} =120V, T _A =100°C		50	μΑ
I _{EBO}	V _{EB} =3.0V		50	nA
BV CBO	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
VCE(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
hFE	V _{CE} =5.0V, I _C =1.0mA	50		
h _{FE}	V _{CE} =5.0V, I _C =10mA	60	240	
hFE	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} =250 μ A, R_{S} =1.0 $k\Omega$,			
	f=10Hz to 15.7kHz		8.0	dB

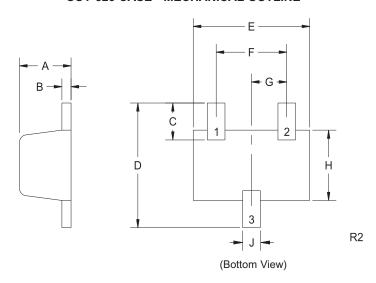
R3 (9-February 2018)

CMUT5401

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SOT-523 CASE - MECHANICAL OUTLINE



LEAD CODE: 1) Base 2) Emitter

- 3) Collector

MARKING CODE: 4C5

DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
Α	0.023	0.031	0.58	0.78			
В	0.002	0.008	0.04	0.20			
С	0.013	0.021	0.34	0.54			
D	0.059	0.067	1.50	1.70			
E	0.059	0.067	1.50	1.70			
F	0.035	0.043	0.90	1.10			
G	0.020		0.50				
Н	0.031	0.039	0.78	0.98			
J	0.010	0.014	0.25	0.35			

SOT-523 (REV: R2)



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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