#### **CMPT2484**

#### SURFACE MOUNT NPN LOW NOISE SILICON TRANSISTOR



www.centralsemi.com

## **DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CMPT2484 type is an NPN silicon low noise transistor manufactured by the epitaxial planar process, epoxy molded in a surface mount package, designed for low noise amplifier applications.

**MARKING CODE: C1U** 



MAXIMUM RATINGS: (T <sub>A</sub> =25°C)	SYMBOL		UNITS
Collector-Base Voltage	$V_{CBO}$	60	V
Collector-Emitter Voltage	$V_{CEO}$	60	V
Emitter-Base Voltage	$V_{EBO}$	6.0	V
Continuous Collector Current	IC	50	mA
Power Dissipation	$P_{D}$	350	mW
Operating and Storage Junction Temperature	T <sub>J</sub> , T <sub>stg</sub>	-65 to +150	°C
Thermal Resistance	$\Theta_{\sf JA}$	357	°C/W

# **ELECTRICAL CHARACTERISTICS:** (T<sub>A</sub>=25°C unless otherwise noted)

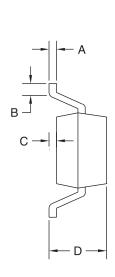
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I <sub>CBO</sub>	V <sub>CB</sub> =45V		10	nA
ICBO	V <sub>CB</sub> =45V, T <sub>A</sub> =150°C		10	μΑ
I <sub>EBO</sub>	V <sub>EB</sub> =5.0V		10	nA
<b>BV</b> CBO	I <sub>C</sub> =10μA	60		V
BVCEO	I <sub>C</sub> =10mA	60		V
BVEBO	I <sub>E</sub> =10μA	5.0		V
V <sub>CE</sub> (SAT)	I <sub>C</sub> =1.0mA, I <sub>B</sub> =100μA		0.35	V
V <sub>BE</sub> (ON)	$V_{CE}$ =5.0V, $I_{C}$ =1.0mA		0.95	V
hFE	$V_{CE}$ =5.0V, $I_{C}$ =1.0mA	250		
hFE	$V_{CE}$ =5.0V, $I_{C}$ =10mA		800	
$C_{ob}$	$V_{CB}$ =5.0V, $I_E$ =0, f=1.0MHz		6.0	pF
C <sub>ib</sub>	$V_{EB}$ =0.5V, $I_{C}$ =0, f=1.0MHz		6.0	pF
NF	$V_{CE}$ =5.0V, $I_{C}$ =10 $\mu$ A, $R_{S}$ =10 $k\Omega$ ,			
	f=1.0kHz, BW=200Hz		3.0	dB

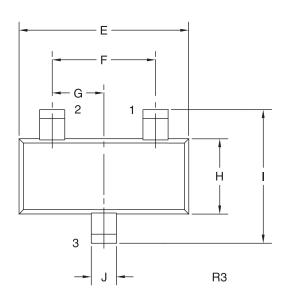
## **CMPT2484**

### **SURFACE MOUNT NPN LOW NOISE** SILICON TRANSISTOR



# **SOT-23 CASE - MECHANICAL OUTLINE**





## LEAD CODE:

- 1) Base 2) Emitter 3) Collector

MARKING CODE: C1U

DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
Α	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			
Е	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			
I	0.083	0.098	2.10	2.49			
J	0.014	0.020	0.35	0.50			

SOT-23 (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 (2<sup>nd</sup> 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**

#### Corporate Headquarters & Customer Support Team

Central Semiconductor Corp. 145 Adams Avenue Hauppauge, NY 11788 USA Main Tel: (631) 435-1110 Main Fax: (631) 435-1824

Support Team Fax: (631) 435-3388

www.centralsemi.com

Worldwide Field Representatives: www.centralsemi.com/wwreps

**Worldwide Distributors:** 

www.centralsemi.com/wwdistributors

For the latest version of Central Semiconductor's **LIMITATIONS AND DAMAGES DISCLAIMER**, which is part of Central's Standard Terms and Conditions of sale, visit: <a href="https://www.centralsemi.com/terms">www.centralsemi.com/terms</a>

www.centralsemi.com (001)

# **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Bipolar Transistors - BJT category:

Click to view products by Central Semiconductor manufacturer:

Other Similar products are found below:

619691C MCH4017-TL-H BC546/116 BC557/116 BSW67A NTE158 NTE187A NTE195A NTE2302 NTE2330 NTE63 C4460
2SA1419T-TD-H 2SA1721-O(TE85L,F) 2SA2126-E 2SB1204S-TL-E 2SC5488A-TL-H 2SD2150T100R SP000011176 FMMTA92QTA
2N2369ADCSM 2N5769 2SC2412KT146S 2SC5490A-TL-H 2SD1816S-TL-E 2SD1816T-TL-E CMXT2207 TR CPH6501-TL-E
MCH4021-TL-E US6T6TR NJL0281DG 732314D CMXT3906 TR CPH3121-TL-E CPH6021-TL-H 873787E IMZ2AT108 UMX21NTR
MCH6102-TL-E NJL0302DG 2N3583 2SA1434-TB-E 2SC3143-4-TB-E 2SD1621S-TD-E NTE103 30A02MH-TL-E NSV40301MZ4T1G
NTE101 NTE13 NTE15