CMPT5086 CMPT5087

SURFACE MOUNT PNP SILICON TRANSISTOR



www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMPT5086 and CMPT5087 are PNP silicon transistors manufactured by the epitaxial planar process, epoxy molded in a surface mount package, designed for applications requiring high gain and low noise.

MARKING CODES: CMPT5086: C2P

CMPT5087: C2Q



MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Collector-Base Voltage	V_{CBO}	50	V
Collector-Emitter Voltage	V_{CEO}	50	V
Emitter-Base Voltage	V_{EBO}	3.0	V
Continuous Collector Current	IC	50	mA
Power Dissipation	P_{D}	350	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C
Thermal Resistance	Θ_{JA}	357	°C/W

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

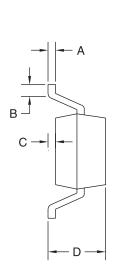
	, , , , , , , , , , , , , , , , , , ,					
		CMPT5086		CMPT5087		
SYMBOL	TEST CONDITIONS	MIN	MAX	MIN	MAX	UNITS
I _{CBO}	V _{CB} =10V	-	10	-	10	nA
I _{CBO}	V _{CB} =35V	-	50	-	50	nA
BV CBO	I _C =100μA	50	-	50	-	V
BVCEO	I _C =1.0mA	50	-	50	-	V
BV EBO	I _E =100μA	3.0	-	3.0	-	V
V _{CE(SAT)}	I _C =10mA, I _B =1.0mA	-	0.30	-	0.30	V
V _{BE} (SAT)	I _C =10mA, I _B =1.0mA	-	0.85	-	0.85	V
h _{FE} `	V_{CE} =5.0V, I_{C} =0.1mA	150	500	250	800	
h _{FE}	V _{CE} =5.0V, I _C =1.0mA	150	-	250	-	
h _{FE}	V_{CE} =5.0V, I_{C} =10mA	150	-	250	-	
fT	V_{CE} =5.0V, I_{C} =500 μ A, f=20MHz	40	-	40	-	MHz
C _{ob}	V _{CB} =5.0V, I _E =0, f=1.0MHz	-	4.0	-	4.0	pF
h _{fe}	V _{CE} =5.0V, I _C =1.0mA, f=1.0kHz	150	600	250	900	
NF	V_{CE} =5.0V, I_{C} =20mA, R_{S} =10k Ω ,					
	f=10Hz to 15.7kHz	-	3.0	-	2.0	dB
NF	V_{CE} =5.0V, I_{C} =100 μ A, R_{S} =3.0 $k\Omega$, f=1.0 k Hz	-	3.0	-	2.0	dB

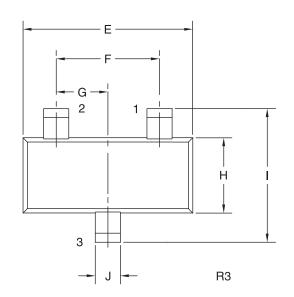
CMPT5086 CMPT5087

SURFACE MOUNT PNP SILICON TRANSISTOR



SOT-23 CASE - MECHANICAL OUTLINE





LEAD CODE:

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

MARKING CODES: CMPT5086: C2P CMPT5087: C2Q

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			
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)

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 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 NTE16001