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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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MMPQ2907A
SURFACE MOUNT
PNP SILICON
QUAD TRANSISTORS



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR MMPQ2907A, consisting of four transistors and available in the SOIC-16 surface mount package, is designed for general purpose amplifier and switching applications.



SOIC-16 CASE

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: ($T_A=25^\circ\text{C}$)

Collector-Base Voltage
Collector-Emitter Voltage
Emitter-Base Voltage
Continuous Collector Current
Power Dissipation
Operating and Storage Junction Temperature
Thermal Resistance (Total Package)
Thermal Resistance (Each Transistor)

SYMBOL

V_{CBO}	60
V_{CEO}	60
V_{EBO}	5.0
I_C	600
P_D	1.0
T_J, T_{stg}	-55 to +150
θ_{JA}	125
θ_{JA}	240

UNITS

V
V
V
mA
W
$^\circ\text{C}$
$^\circ\text{C/W}$
$^\circ\text{C/W}$

ELECTRICAL CHARACTERISTICS: ($T_A=25^\circ\text{C}$ unless otherwise noted)

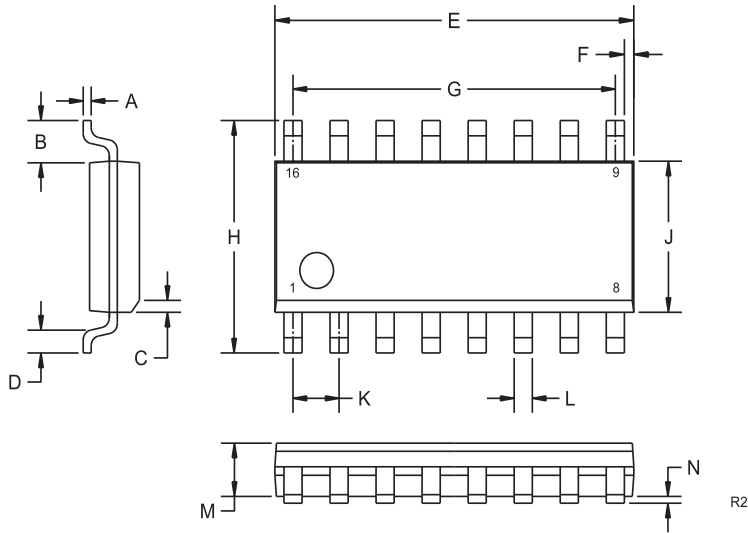
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_{CEV}	$V_{CE}=30\text{V}, V_{BE}=0.5\text{V}$			50	nA
I_{CBO}	$V_{CB}=50\text{V}$			20	nA
I_{CBO}	$V_{CB}=50\text{V}, T_A=125^\circ\text{C}$			20	μA
BV_{CBO}	$I_C=10\mu\text{A}$	60			V
BV_{CEO}	$I_C=10\text{mA}$	60			V
BV_{EBO}	$I_E=10\mu\text{A}$	5.0			V
$V_{CE(SAT)}$	$I_C=150\text{mA}, I_B=15\text{mA}$			0.4	V
$V_{CE(SAT)}$	$I_C=500\text{mA}, I_B=50\text{mA}$			1.6	V
$V_{BE(SAT)}$	$I_C=150\text{mA}, I_B=15\text{mA}$			1.3	V
$V_{BE(SAT)}$	$I_C=500\text{mA}, I_B=50\text{mA}$			2.6	V
h_{FE}	$V_{CE}=10\text{V}, I_C=0.1\text{mA}$	75			
h_{FE}	$V_{CE}=10\text{V}, I_C=1.0\text{mA}$	100			
h_{FE}	$V_{CE}=10\text{V}, I_C=10\text{mA}$	100			
h_{FE}	$V_{CE}=10\text{V}, I_C=150\text{mA}$	100		300	
h_{FE}	$V_{CE}=10\text{V}, I_C=500\text{mA}$	50			
f_T	$V_{CE}=20\text{V}, I_C=50\text{mA}, f=100\text{MHz}$		250		MHz
C_{ib}	$V_{EB}=2.0\text{V}, f=100\text{kHz}$		12		pF
C_{ob}	$V_{CB}=10\text{V}, f=100\text{kHz}$		6.0		pF
t_{on}	$V_{CC}=30\text{V}, I_C=150\text{mA}, I_{B1}=15\text{mA}$		30		ns
t_d	$V_{CC}=30\text{V}, I_C=150\text{mA}, I_{B1}=15\text{mA}$		8.0		ns
t_r	$V_{CC}=30\text{V}, I_C=150\text{mA}, I_{B1}=15\text{mA}$		20		ns
t_{off}	$V_{CC}=6.0\text{V}, I_C=150\text{mA}, I_{B1}=I_{B2}=15\text{mA}$		80		ns
t_s	$V_{CC}=6.0\text{V}, I_C=150\text{mA}, I_{B1}=I_{B2}=15\text{mA}$		60		ns
t_f	$V_{CC}=6.0\text{V}, I_C=150\text{mA}, I_{B1}=I_{B2}=15\text{mA}$		20		ns

R2 (1-March 2010)

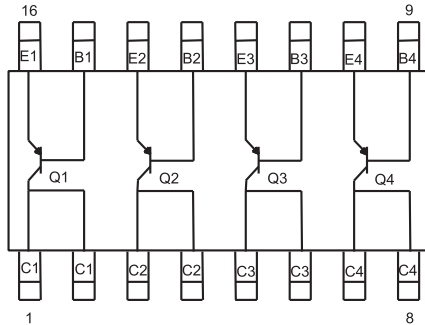
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 SURFACE MOUNT
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SOIC-16 CASE - MECHANICAL OUTLINE



PIN CONFIGURATION



MARKING: FULL PART NUMBER

SYMBOL	DIMENSIONS		DIMENSIONS	
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.007	0.010	0.19	0.25
B	0.041		1.04	
C	0.010	0.020	0.25	0.50
D	0.020	0.035	0.50	0.90
E	0.386	0.394	9.80	10.00
F	0.010		0.25	
G	0.350		8.89	
H	0.228	0.244	5.80	6.20
J	0.150	0.157	3.80	4.00
K	0.050		1.27	
L	0.0138	0.0201	0.35	0.51
M	0.0531	0.0689	1.35	1.75
N	0.0039	0.0098	0.10	0.25

SOIC-16 (REV:R2)

R2 (1-March 2010)