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MMPQ3906

SURFACE MOUNT PNP SILICON QUAD TRANSISTORS



www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR MMPQ3906, consisting of four transistors and available in the SOIC-16 surface mount package, is designed for general purpose amplifier and switching applications.

MARKING: FULL PART NUMBER



MAXIMUM	RATINGS: (T _A =25°C)	SYMBOL				UNITS
Collector-Ba	ase Voltage	V_{CBO}		40		V
Collector-Er	mitter Voltage	VCEO		40		V
Emitter-Bas	e Voltage	V_{EBO}		5.0		V
Continuous Collector Current		l _C		200		mA
Power Dissipation		P_{D}		1.0		W
Operating and Storage Junction Temperature		T _{J,} T _{stg}	-5	55 to +150		°C
Thermal Resistance (Total Package)		Θ_{JA}		125		°C/W
Thermal Resistance (Each Transistor)		$\Theta_{\sf JA}$		240		°C/W
ELECTRICA	AL CHARACTERISTICS: (TA=25°C u	unless otherwise no	oted)			
SYMBOL	TEST CONDITIONS		MIN	TYP	MAX	UNITS
I _{CEV}	V_{CE} =30V, V_{EB} =3.0V				50	nA
B\/	Ι_=10μΔ		40			\/

ELECTRICAL CHARACTERISTICS : (T _A =25°C unless otherwise noted)						
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS	
I _{CEV}	V_{CE} =30V, V_{EB} =3.0V			50	nA	
BV_{CBO}	I _C =10μA	40			V	
BVCEO	I _C =1.0mA	40			V	
BVEBO	I _E =10μA	5.0			V	
V _{CE} (SAT)	I _C =10mA, I _B =1.0mA			0.25	V	
	I _C =50mA, I _B =5.0mA			0.40	V	
V _{BE} (SAT)	I _C =10mA, I _B =1.0mA	0.65		0.85	V	
V _{BE} (SAT)	I _C =50mA, I _B =5.0mA			0.95	V	
h _{FE} ` ′	V_{CE} =1.0V, I_{C} =0.1mA	60				
h _{FE}	V _{CE} =1.0V, I _C =1.0mA	80				
hFE	V _{CE} =1.0V, I _C =10mA	100		300		
hFE	V _{CE} =1.0V, I _C =50mA	60				
hFE	V _{CE} =1.0V, I _C =100mA	30				
f _T	V _{CE} =20V, I _C =10mA, f=100MHz		450		MHz	
C _{ib}	V _{EB} =0.5V, f=100kHz		8.0		pF	
C _{ob}	V _{CB} =5.0V, f=100kHz		3.0		pF	
NF	V_{CE} =5.0V, I_{C} =100 μ A, R_{S} =1.0 $k\Omega$, f=10Hz to 15.7 k Hz		2.5		dB	
^t d	V _{CC} =3.0V, V _{BE} =0.5V, I _C =10mA, I _{B1} =1.0mA		15		ns	
t _r	V _{CC} =3.0V, V _{BE} =0.5V, I _C =10mA, I _{B1} =1.0mA		20		ns	
t _s	V _{CC} =3.0V, I _C =10mA, I _{B1} =I _{B2} =1.0mA		110		ns	
t _f	V _{CC} =3.0V, I _C =10mA, I _{B1} =I _{B2} =1.0mA		40		ns	

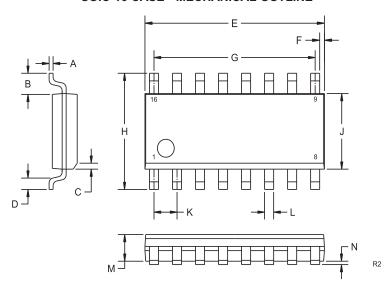
R2 (1-March 2010)

MMPQ3906

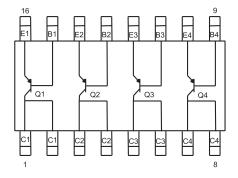
SURFACE MOUNT PNP SILICON QUAD TRANSISTORS



SOIC-16 CASE - MECHANICAL OUTLINE



PIN CONFIGURATION



MARKING: FULL PART NUMBER

DIMENSIONS						
	INC	HES	MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
Α	0.007	0.010	0.19	0.25		
В	0.041		1.04			
С	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			
Н	0.228	0.244	5.80	6.20		
J	0.150	0.157	3.80	4.00		
K	0.050		1.27			
Ĺ	0.0138	0.0201	0.35	0.51		
М	0.0531	0.0689	1.35	1.75		
N	0.0039	0.0098	0.10	0.25		

SOIC-16 (REV:R2)