Data Sheet MPQ3725 NPN SILICON QUAD TRANSISTOR conductor Corp. JEDEC TO-116 CASE 145 Adams Ave., Hauppauge, NY 11788 USA Phone (516) 435-1110 FAX (516) 435-1824 Manufacturers of World Class Discrete Semiconductors

DESCRIPTION

The CENTRAL SEMICONDUCTOR MPQ3725 type is comprised of four independent silicon transistors mounted in a 14 PIN-DIP case, designed for core driver applications.

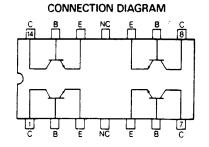
<u>MAXIMUM RATINGS</u> $(T_A=25^{\circ}C)$

5em

	SYMBOL		UNIT
Collector-Base Voltage	VCES	60	٧
Collector-Emitter Voltage	VCEO	40	V
Emitter-Base Voltage	VEBO	5.0	V
Collector Current	I _C	1.0	А
Power Dissipation (each transistor)	PD	1.0	W
Power Dissipation (total package)	PD	2.5	W
Operating and Storage Junction Temperature	TJ, ^T STG	-65 TO +150	°C

ELECTRICAL CHARACTERISTICS (TA=25°C)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
СВО	V _{CB} =40V		500	nA
BVCES	I _C =100μA	60		V
BVCEO	$I_{c} = 10 \text{ mA}$	40		V
BVEBO	Ι _Ε =10μΑ	5.0		V
V _{CE} (SAT)	I _C =500mA, I _B =50mA	-	0.45	V
V _{BE} (SAT)	$I_{C}=500 \text{mA}$, $I_{B}=50 \text{mA}$	0.80	1.0	V
hFE	$V_{CE}=1.0V, I_{C}=100mA$	35	200	
hfe	$V_{CE}=2.0V, I_{C}=500mA$	25	-	
fT	$V_{CE}=10V$, $I_{C}=50mA$, f=100MHz	250		MHz
ton	VBE(OFF)=3.8V, 1 _C =500mA, 1 _{B1} =50mA		35	ns
^t OFF	I _C =500mÁ, I _{B1} =1 _{B2} =50mA		60	ns
С _{ор}	V _{CB} =10V, I _E =0, f=1.0MHz		10	р F
С _{іЬ}	$V_{EB}=0.5V$, $I_{C}=0$, f=1.0MHz		80	рF



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CONTACT US

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