3-of-8 Decoder/Demultiplexer 74VHC138





General Description

The VHC138 is an advanced high speed CMOS 3-to-8 invin1derW an

74VHC138

TRUTH TABLE

Inputs				Outputs									
E ₁	E ₂	E ₃	A ₀	A ₁	A ₂	O ₀	<u>0</u> 1	O ₂	Ō ₃	O ₄	<u>0</u> 5	O ₆	0 7
H X X	X H X	X X L	X X X	X X X	X X X	H H H	H H H	H H H	H H H	H H H	H H H	H H H	HH
L L L	L L L	H H H	L H L H	L L H	L L L	L H H	H L H H	•	•	•	•	•	

74VHC138

RECOMMENDED OPERATING CONDITIONS

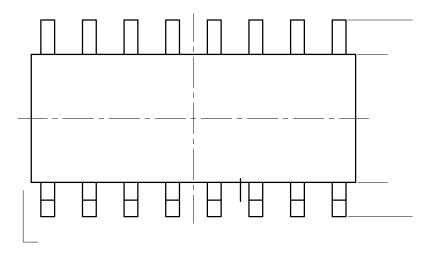
Symbol	Parameter	Min	Max	Unit	
V _{CC}	DC Supply Voltage		2.0	3.6	V
V _{IN}	DC Input Voltage (Note 4)		0	5.5	V
V _{OUT}	DC Output Voltage (Note 4)		0	V _{CC}	V
T _A	Operating Temperature		-40	+85	°C
t _r , t _f	Input Rise and Fall Time $ V_{CC} = 3.0 \text{ V to } 3 $ $ V_{CC} = 4.5 \text{ V to } 5 $.6 V .5 V	0 0	100 20	ns/V

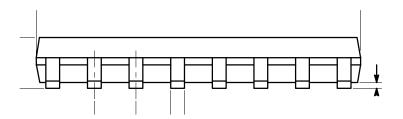
Functional operation above the stresses listed in the Recommended Operating Ranges is not implied. Extended exposure to stresses beyond

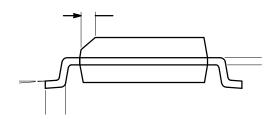


SOIC-16, 150 mils CASE 751BG ISSUE O

DATE 19 DEC 2008







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