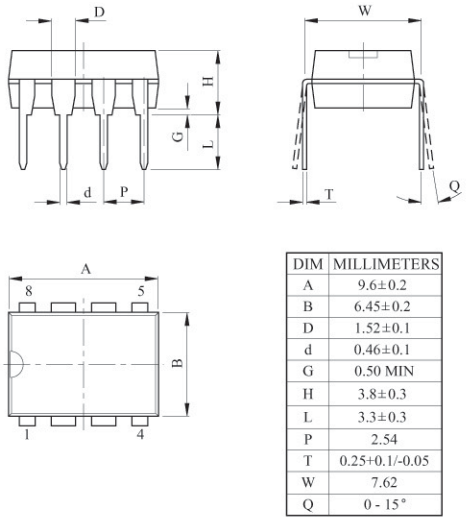
DUAL COMPARATOR

FEATURES

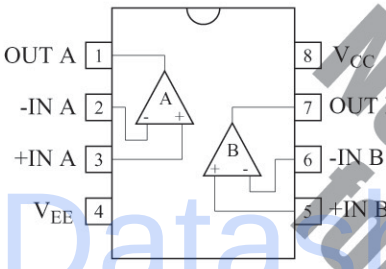
- Be Possible to Operate at the Wide Range Single or Two Supply Voltage.
- Low Supply Current : I_{CC}=0.6mA(Typ.).
- Low Input Offset Voltage : V_{IO}=1mV(Typ.).
- Wide Common Mode Input Voltage : $0V_{DC}$ to V_{CC}-$1.5V_{DC}$.
- Output is Compatible with TTL, DTL, MOS and C-MOS.
- Output is Open Collector and Wired-OR Possible.



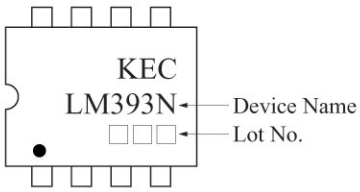
DIM	MILLIMETERS
A	9.6±0.2
B	6.45±0.2
D	1.52±0.1
d	0.46±0.1
G	0.50 MIN
H	3.8±0.3
L	3.3±0.3
P	2.54
T	0.25+0.1/-0.05
W	7.62
Q	0 - 15°

DIP-8

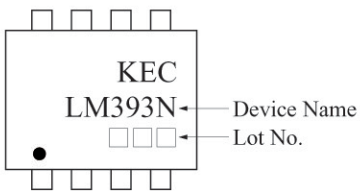
PIN CONNECTION (TOP VIEW)



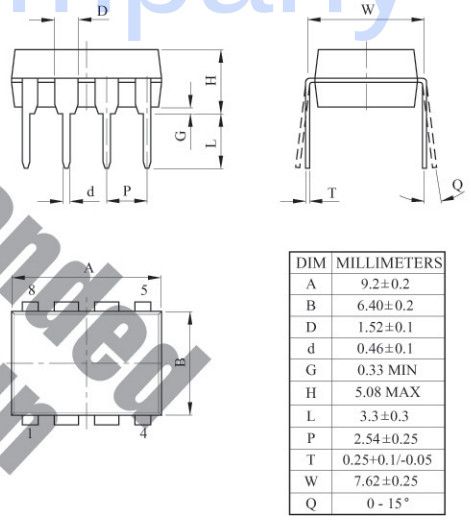
MARKING



DIP-8



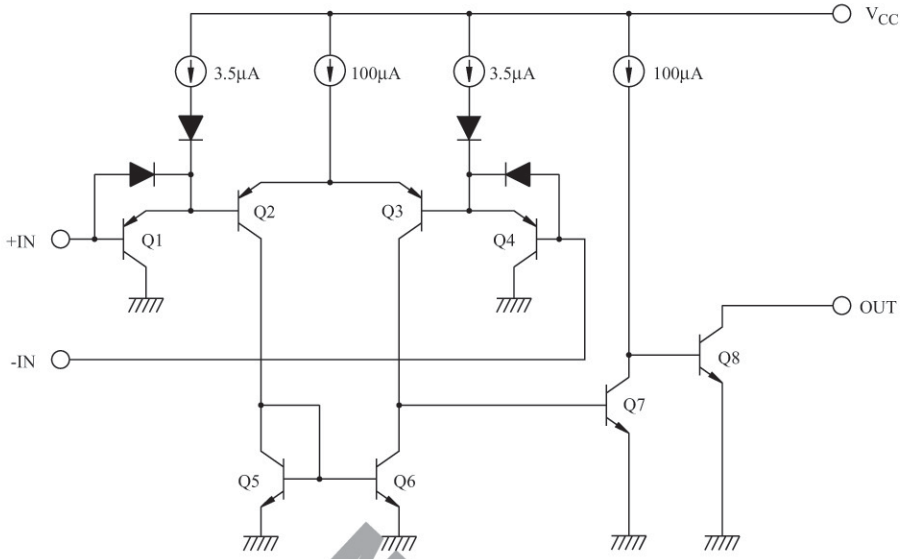
DIP-8 (1)



DIM	MILLIMETERS
A	9.2±0.2
B	6.40±0.2
D	1.52±0.1
d	0.46±0.1
G	0.33 MIN
H	5.08 MAX
L	3.3±0.3
P	2.54±0.25
T	0.25+0.1/-0.05
W	7.62±0.25
Q	0 - 15°

DIP-8 (1)

EQUIVALENT CIRCUIT



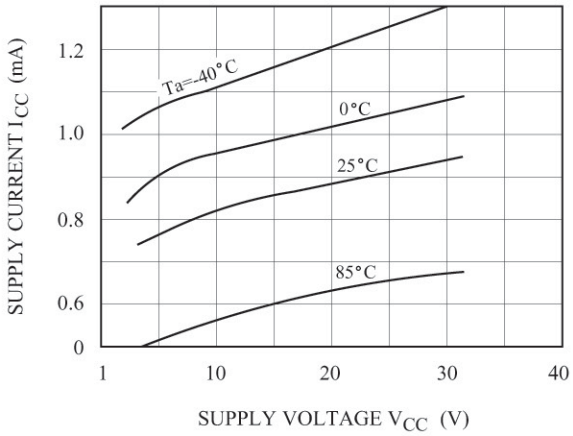
MAXIMUM RATINGS (Ta=25℃)

CHARACTERISTIC		SYMBOL	RATIN	UNIT
Suppl Voltage		V_{CC}	±18 36	V
Differential Input Voltage		DV_{IN}	±18 36	V
Common Mo e Input Voltage		CMV_{IN}	-0.3 ~ V_{CC}	V
Po er Dissipation	LM393N	P_D	500	m
Operating Temperature		T_{opr}	0 ~ 70	℃
Storage Temperature		T_{stg}	-55 ~ 125	℃

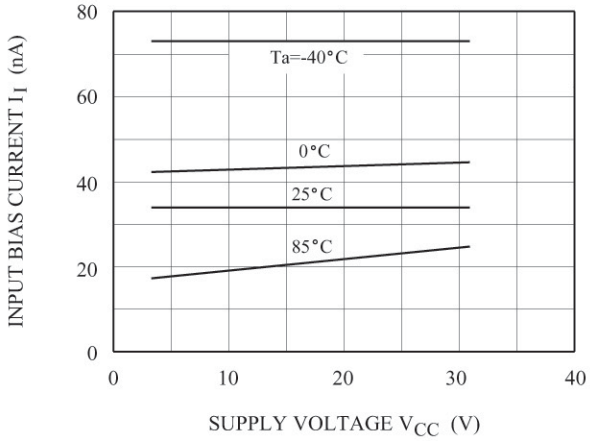
ELECTRICAL CHARACTERISTICS (V_{CC}=5V, V_{EE}=GND, Ta=25℃)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Input Offset Voltage	V_{IO}	V_O=1.4V	-	1	5	mV
Input Offset Current	I_{IO}	-	-	5	50	nA
Input Bias Current	I_I	-	-	65	250	nA
Common Mo e Input Voltage	CMV_{IN}	-	0	-	V_{CC}-1.5	V
Voltage ain	V	R_L=15 Ω	-	200	-	V/mV
Suppl Current	I_{CC}	No loa	-	0.6	2.5	mA
Sin Current	I_{sin}	+IN=0V -IN=1V V_{OL}=1.5V	6	18	-	mA
Output Voltage L Level	V_{OL}	+IN=0V -IN=1V I_{sin} =4mA	-	160	400	mV
Output Lea Current	I_{LEA}	+IN=1V -IN=0V V_O=5V	-	0.1	-	nA
Response Time	t_{rsp}	R_L=5.1 Ω C_L=15p	-	1.4	-	μs

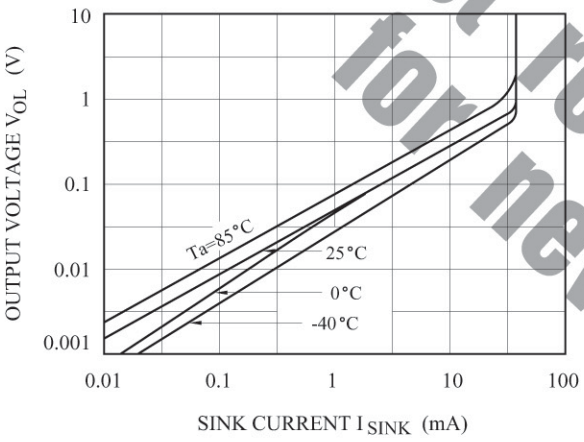
V_{CC} - I_{CC}



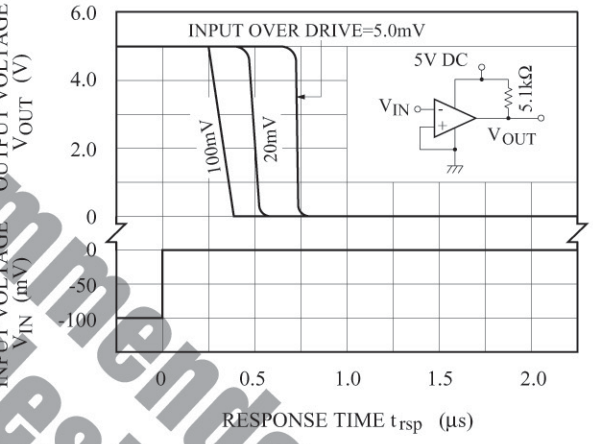
V_{CC} - I_I



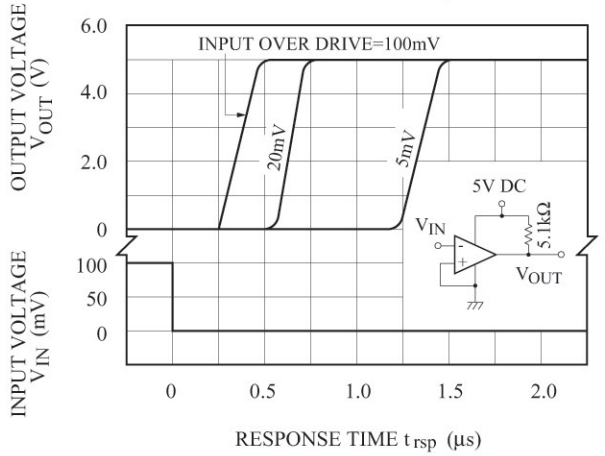
V_{OL} - I_{SINK}



V_{IN} , V_{OUT} - t_{rsp}



V_{IN} , V_{OUT} - t_{rsp}



P_D - Ta