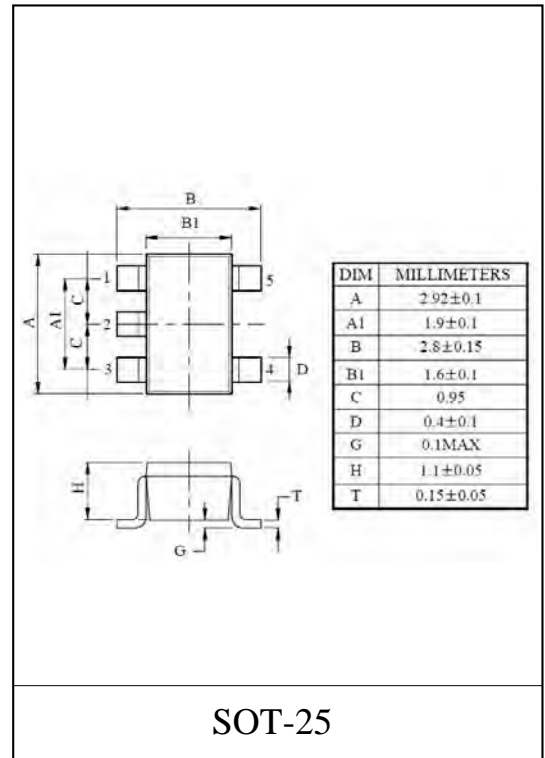
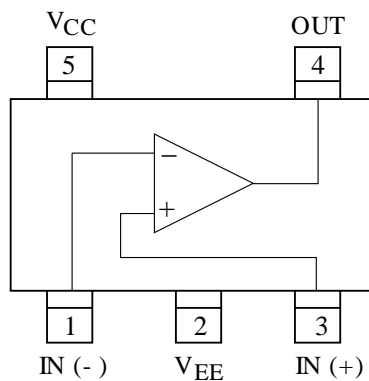


Single Comparator

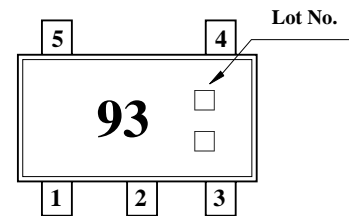
- Be Possible to Operate at the Wide Range Single or Two Supply Voltage. : 2~36V, $\pm 1\sim 18V$
- Low Supply Current. : $I_{CC}=0.4mA$ (Typ.)
- Low Input Offset Voltage : $V_{IO}=2mV$ (Typ.).
- Wide Common Mode Input Voltage : $0V_{DC}$ to $V_{CC}-1.5V_{DC}$.
- Output is Compatible with TTL, DTL, MOS and C-MOS.
- Output is Open Collector and Wired-OR Possible.



PIN CONNECTION (TOP VIEW)



Marking (Top View)



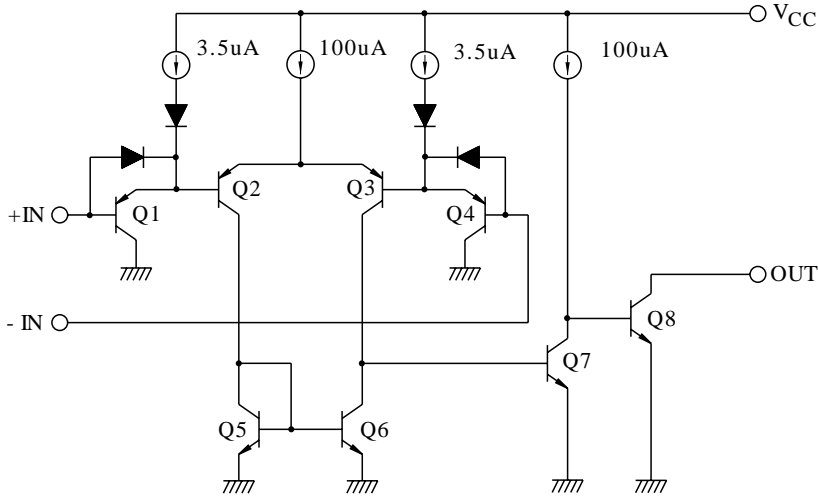
Maximum Rating ($T_a=25^\circ C$)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Supply Voltage	V_{CC}	$\pm 18, 36$	V
Differential Input Voltage	DV_{IN}	$\pm 18, 36$	V
Common Mode Input Voltage	CMV_{IN}	$-0.3\sim V_{CC}$	V
Power Dissipation	P_D	200	mW
Operating Temperature	T_{opr}	$-40\sim 85$	$^\circ C$
Storage Temperature	T_{stg}	$-55\sim 125$	$^\circ C$

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Electrical Characteristic : $V_{CC}=5V$, $V_{EE}=GND$, $T_a=25^\circ C$

EQUIVALENT CIRCUIT



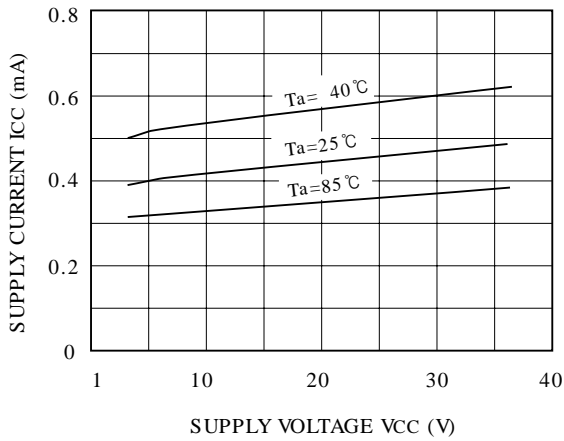
ELECTRICAL CHARACTERISTICS ($V_{CC}=5V$, $V_{EE}=GND$, $T_a=25^\circ C$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Input Offset Voltage	V_{IO}	$V_o=1.4V$	-	2	5	mV
Input Offset Current	I_{IO}	-	-	5	50	nA
Input Bias Current	I_I	-	-	25	250	nA
Common Mode Input Voltage	CMV_{IN}	-	0	-	$V_{CC}-1.5$	V
Voltage Gain	G_V	$R_L=15k\Omega$	-	200	-	V/mV
Supply Current	I_{CC}	No load	-	0.4	0.8	mA
Sink Current	I_{sink}	$+IN=0V$, $-IN=1V$, $V_{OL}=1.5V$	6	16	-	mA
Output Voltage ("L" Level)	V_{OL}	$+IN=0V$, $-IN=1V$, $I_{sink}=3mA$	-	0.2	0.4	V
Output Leak Current	I_{LEAK}	$+IN=1V$, $-IN=0V$, $V_o=5V$	-	0.1	-	nA
Response Time	t_{rsp}	$R_L=5.1k\Omega$, $C_L=15pF$	-	1.3	-	μS

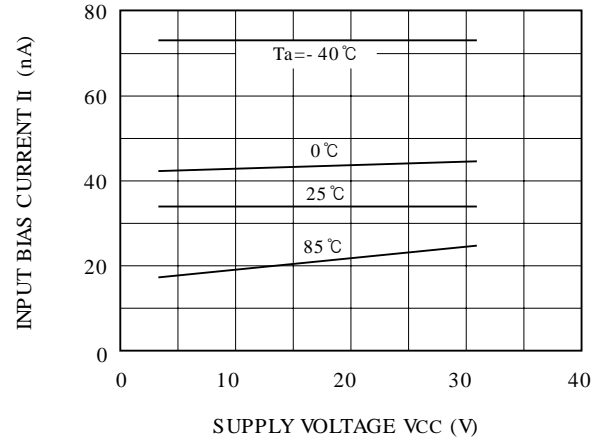


FA393SOT

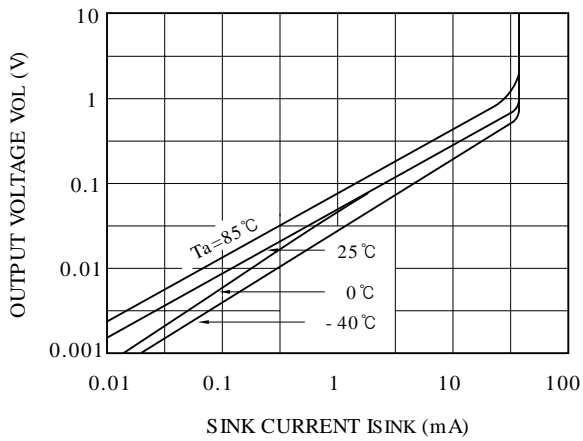
$V_{CC} - I_{CC}$



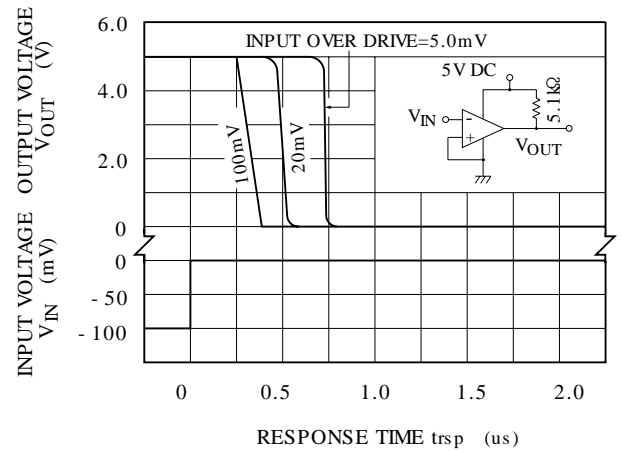
$V_{CC} - I_I$



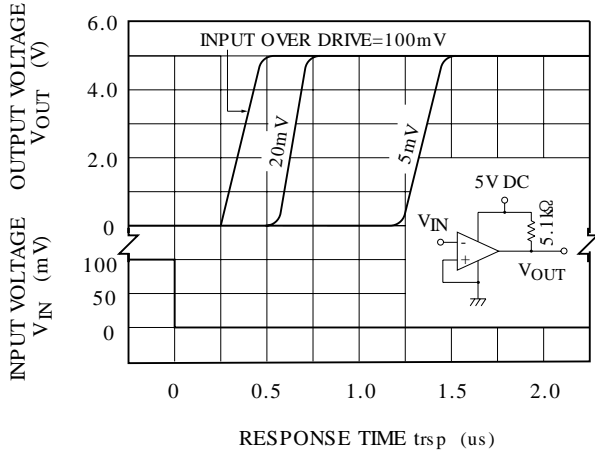
$V_{OL} - I_{SINK}$



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



$V_{IN}, V_{trsp} - V_{OUT}$



$P_D - T_a$

