



## PRODUCT LIST

Industrial Temp. Products(-40~85°C)		Automotive Temp. Products(-40~125°C)	
Part Name	Function	Part Name	Function
K6X0808C1D-DF55	28-DIP, 55ns, LL Pwr	K6X0808C1D-GQ55	28-SOP, 55ns, L Pwr
K6X0808C1D-DF70	28-DIP, 70ns, LL Pwr	K6X0808C1D-GQ70	28-SOP, 70ns, L Pwr
K6X0808C1D-GF55	28-SOP, 55ns, LL Pwr	K6X0808C1D-TQ55	28-TSOP-F, 55ns, L Pwr
K6X0808C1D-GF70	28-SOP, 70ns, LL Pwr	K6X0808C1D-TQ70	28-TSOP-F, 70ns, L Pwr
K6X0808C1D-TF55	28-TSOP-F, 55ns, LL Pwr		
K6X0808C1D-TF70	28-TSOP-F, 70ns, LL Pwr		
K6X0808C1D-RF55	28-TSOP-R, 55ns, LL Pwr		
K6X0808C1D-RF70	28-TSOP-R, 70ns, LL Pwr		

## FUNCTIONAL DESCRIPTION

$\overline{CS}$	$\overline{OE}$	$\overline{WE}$	I/O	Mode	Power
H	X <sup>1)</sup>	X <sup>1)</sup>	High-Z	Deselected	Standby
L	H	H	High-Z	Output Disabled	Active
L	L	H	Dout	Read	Active
L	X <sup>1)</sup>	L	Din	Write	Active

1. X means don't care (Must be in high or low states)

## ABSOLUTE MAXIMUM RATINGS<sup>1)</sup>

Item	Symbol	Ratings	Unit	Remark
Voltage on any pin relative to Vss	V <sub>IN</sub> , V <sub>OUT</sub>	-0.5 to V <sub>CC</sub> +0.5V(Max. 7.0V)	V	-
Voltage on Vcc supply relative to Vss	V <sub>CC</sub>	-0.3 to 7.0	V	-
Power Dissipation	P <sub>D</sub>	1.0	W	-
Storage temperature	T <sub>STG</sub>	-65 to 150	°C	-
Operating Temperature	T <sub>A</sub>	-40 to 85	°C	K6X0808C1D-F
		-40 to 125	°C	K6X0808C1D-Q

1. Stresses greater than those listed under "Absolute Maximum Ratings" may cause permanent damage to the device. Functional operation should be restricted to recommended operating condition. Exposure to absolute maximum rating conditions for extended periods may affect reliability.

RECOMMENDED DC OPERATING CONDITIONS<sup>1)</sup>

Item	Symbol	Min	Typ	Max	Unit
Supply voltage	V <sub>CC</sub>	4.5	5.0	5.5	V
Ground	V <sub>SS</sub>	0	0	0	V
Input high voltage	V <sub>IH</sub>	2.2	-	V <sub>CC</sub> +0.5 <sup>2)</sup>	V
Input low voltage	V <sub>IL</sub>	-0.5 <sup>3)</sup>	-	0.8	V

Note:

1. Industrial Product: T<sub>A</sub>=-40 to 85°C, Otherwise specified  
Automotive Product: T<sub>A</sub>=-40 to 125°C, Otherwise specified
2. Overshoot: V<sub>CC</sub>+3.0V in case of pulse width≤30ns.
3. Undershoot: -3.0V in case of pulse width≤30ns.
4. Overshoot and undershoot are sampled, not 100% tested.

CAPACITANCE<sup>1)</sup> (f=1MHz, T<sub>A</sub>=25°C)

Item	Symbol	Test Condition	Min	Max	Unit
Input capacitance	C <sub>IN</sub>	V <sub>IN</sub> =0V	-	8	pF
Input/Output capacitance	C <sub>IO</sub>	V <sub>IO</sub> =0V	-	10	pF

1. Capacitance is sampled, not 100% tested

## DC AND OPERATING CHARACTERISTICS

Item	Symbol	Test Conditions	Min	Typ	Max	Unit	
Input leakage current	I <sub>LI</sub>	V <sub>IN</sub> =V <sub>SS</sub> to V <sub>CC</sub>	-1	-	1	μA	
Output leakage current	I <sub>LO</sub>	$\overline{CS}=V_{IH}$ or $\overline{OE}=V_{IH}$ or $\overline{WE}=V_{IL}$ , V <sub>IO</sub> =V <sub>SS</sub> to V <sub>CC</sub>	-1	-	1	μA	
Operating power supply current	I <sub>CC</sub>	I <sub>IO</sub> =0mA, $\overline{CS}=V_{IL}$ , V <sub>IN</sub> =V <sub>IH</sub> or V <sub>IL</sub> , Read	-	-	5	mA	
Average operating current	I <sub>CC1</sub>	Cycle time=1μs, 100% duty, I <sub>IO</sub> =0mA, $\overline{CS} \leq 0.2V$ , V <sub>IN</sub> ≤0.2V <sub>IN</sub> ≥V <sub>CC</sub> -0.2V	-	-	7	mA	
	I <sub>CC2</sub>	Cycle time=Min, 100% duty, I <sub>IO</sub> =0mA, $\overline{CS}=V_{IL}$ , V <sub>IN</sub> =V <sub>IH</sub> or V <sub>IL</sub>	-	-	25	mA	
Output low voltage	V <sub>OL</sub>	I <sub>OL</sub> =2.1mA	-	-	0.4	V	
Output high voltage	V <sub>OH</sub>	I <sub>OH</sub> =-1.0mA	2.4	-	-	V	
Standby Current(TTL)	I <sub>SB</sub>	$\overline{CS}=V_{IH}$ , Other inputs=V <sub>IH</sub> or V <sub>IL</sub>	-	-	0.4	mA	
Standby Current (CMOS)	I <sub>SB1</sub>	$\overline{CS} \geq V_{CC}-0.2V$ , Other inputs=0~V <sub>CC</sub>	K6X0808C1D-F	-	-	15	μA
			K6X0808C1D-Q	-	-	25	μA