PRELIMINARY

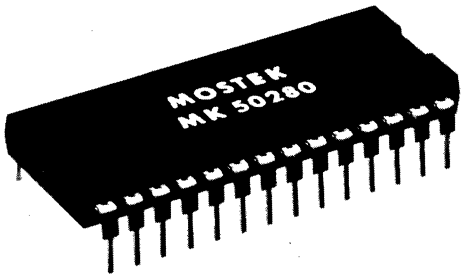
MK 50280 N Series

8-Digit Calculator Series

MOSTEK

FEATURES

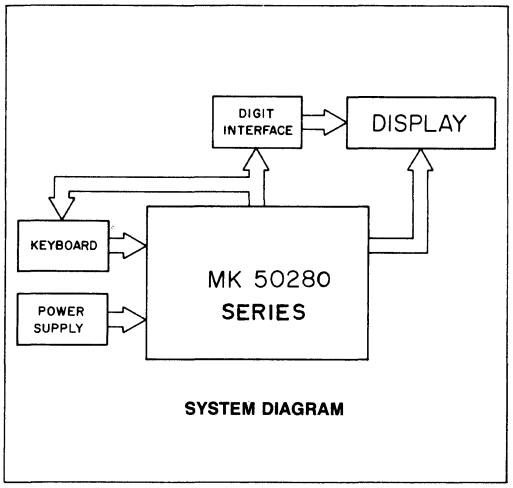
- ☐ Direct Segment Drive for LED's
- ☐ Low Power Consumption
- ☐ Single Power Supply Voltage
- ☐ Internal Clock Requiring No External Components
- ☐ Single 28-pin, Dual-in-line Package
- ☐ Internal Encoding of Keyboard Inputs
- ☐ Internal Debouncing of Keyboard Inputs
- ☐ Regulated Segment Outputs
- ☐ ROM Controlled



STANDARD PRODUCTS

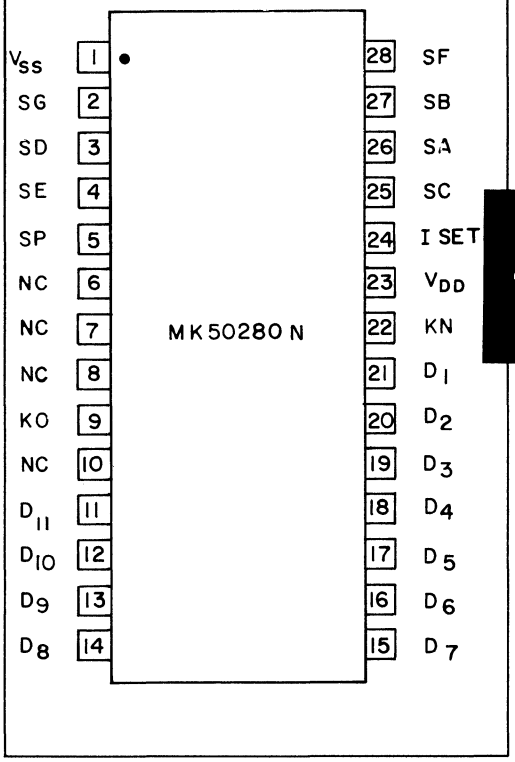
- ☐ MK 50281 8-digit, five-function (+, –, X, ÷, %) with automatic constant and store/recall memory
- ☐ MK 50282 8-digit, five-function (+, –, X, ÷, %) with automatic constant, average function and item counter.
- ☐ MK 50283 8-digit, six-function (+, –, X, ÷, %, √) with automatic constant

8-DIGIT CALCULATOR



SYSTEM DIAGRAM

PIN CONNECTION



Consumer

ABSOLUTE MAXIMUM RATINGS OVER OPERATING FREE-AIR TEMPERATURE RANGE
(All voltages relative to V_{SS})

Supply Voltage Range V ..... +0.3V to −20V

Input Voltage Range ..... +0.3V to −20V

Output Voltage Breakdown SA−SG ..... +0.3V to −17V

DI−DII ..... +0.3V to −17V

Operating Free-Air Temperature Range ..... 0°C to +55°C

Storage Temperature Range ..... −40°C to +100°C

RECOMMENDED OPERATING CONDITIONS ($0°C < T_A < 55°C$)

	PARAMETERS	MIN	TYP	MAX	UNITS
V_{GG}	Supply Voltage	−12	−14.5	−17	volts
V_{IH}	Input Voltage, Logic 1	V_{SS}−1.2			volts
V_{IL}	Input Voltage, Logic 0				volts
ϕ	Clock Period		Internal		μ sec

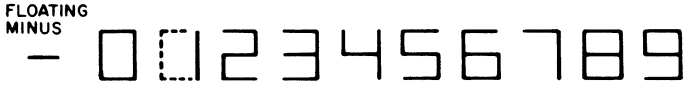
ELECTRICAL CHARACTERISTICS ($12 < V < 17; 0°C < T_A < 55°C$)

	PARAMETERS	MIN	TYP	MAX	UNITS
I_{GG}	Supply Current		6		mA
I_I	Input Current @ $V_{in} = V_{ss}$		150		μA
$R_{ON\ (SEG)}$	Segment Output "On" Resistance		Programmable		Ω
$R_{ON\ (DIG)}$	Digit Output "On" Resistance				Ω
$I_{OL\ (SEG)}$	Segment Output Leakage Current		.1	10	μA
$I_{OL\ (DIG)}$	Digit Output Leakage Current		.1	10	μA

Consumer

DISPLAY FONT

FLOATING MINUS



NOTE: DISPLAY FLASHES FOR OVERFLOW