

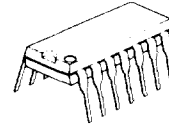
NJM2048

The NJM2048 is a two output switching circuit with oscillator, reference voltage, protection circuit and soft start function. The two outputs are well tracking and, 4.8V system is finely adjustable.

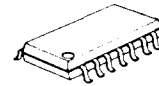
Package Outline

Absolute Maximum Ratings (Ta=25°C)

Supply Voltage	V ⁺	20V
Power Dissipation	P _D (D-Type)	700mW
	(M-Type)	300mW
Operating Temperature Range	T _{opr}	-20~+75°C
Storage Temperature Range	T _{stg}	-40~+125°C



NJM2048D



NJM2048M

Electrical Characteristics (Ta=25°C, V⁺=12V)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Supply Current	I _{CC}	Note 1	—	2.0	2.4	mA
Reference Voltage	V _{REF}		4.75	5.00	5.25	V
Average Temperature Coefficient of Reference Voltage	$\Delta V_{REF}/\Delta T$	Ta = -20~+75°C	—	—	80	ppm/°C
Reference Voltage Deviation	$\Delta V_{REF} - V_{CC}$	V ⁺ = 9~20V	—	—	30	mV
Oscillator Frequency	f _{osc}	R _T = 36kΩ, C _T = 1000pF	45	50	55	kHz
Protection Circuit Sensing Voltage	V _{SENSE}		180	200	220	mV
Soft Start	S.S.	C _S = 0.047μF	28	35	70	mSec
Output Voltage Adjustable Range	V _{adj}	V _{O1} = 4.8V, I _{O1} = 250mA	0.2	0.6	1.1	V
Output Voltage (8.6V System)	V _{O2}	V _{11PIN} = 4.8V, I _{O2} = 300mA	8.47	8.60	8.73	V

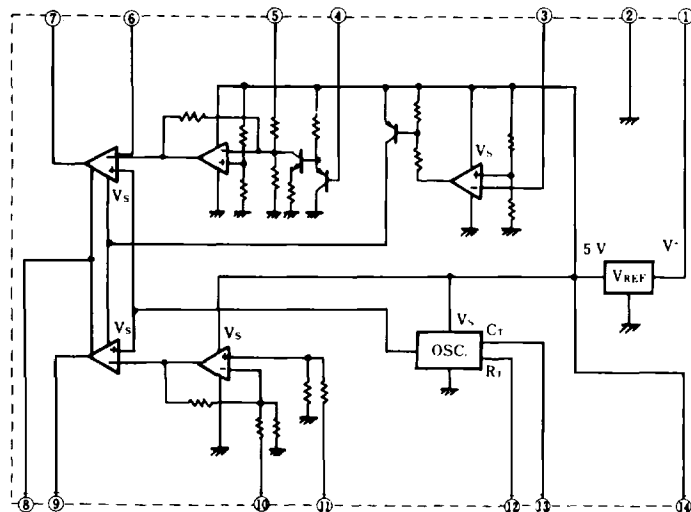
Note 1: Connected reference voltage to 3, 6, and 12 terminal

Connected GND to 2 and 8 terminal

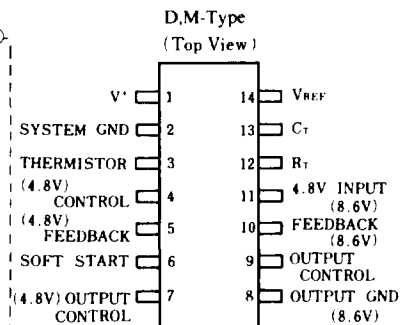
Other terminal are open.

Note 2: The specified item shows the circuit shown in the measuring circuit.

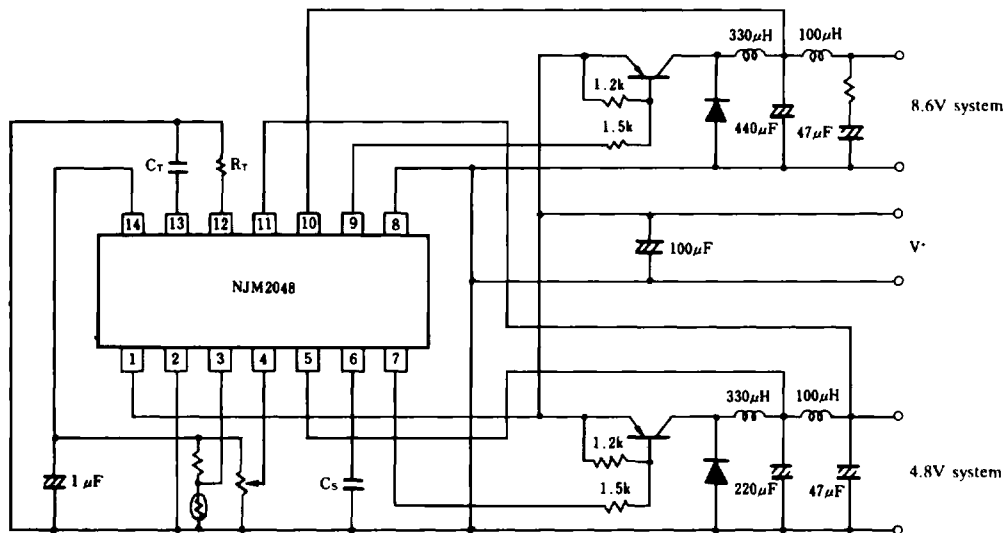
Block Diagram



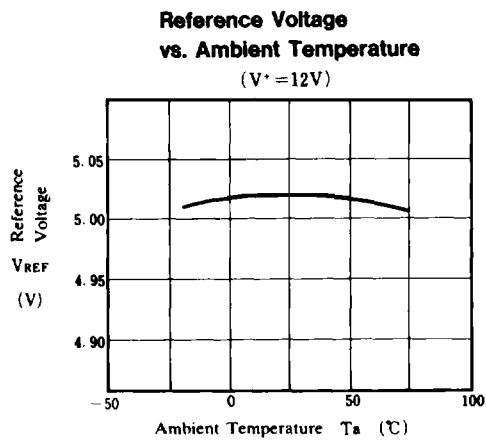
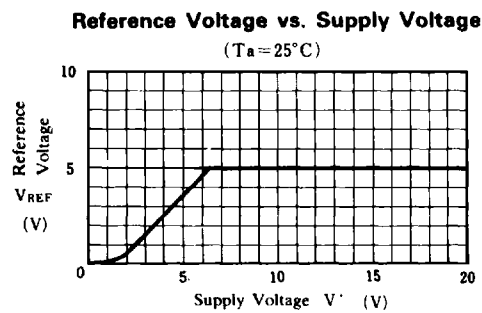
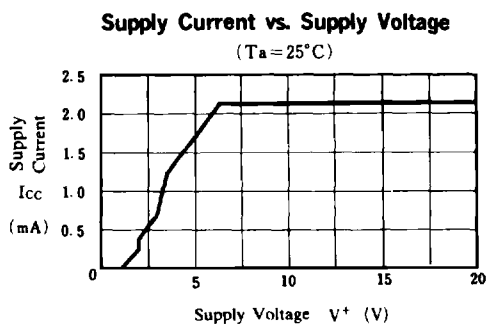
Connection Diagram



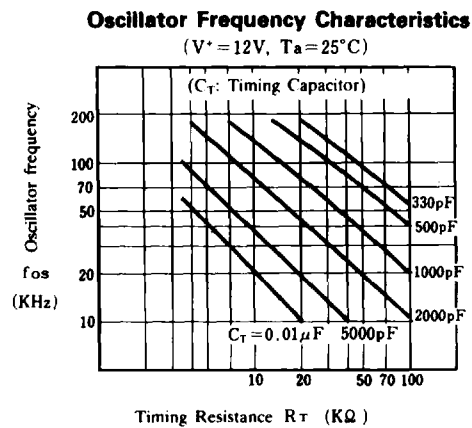
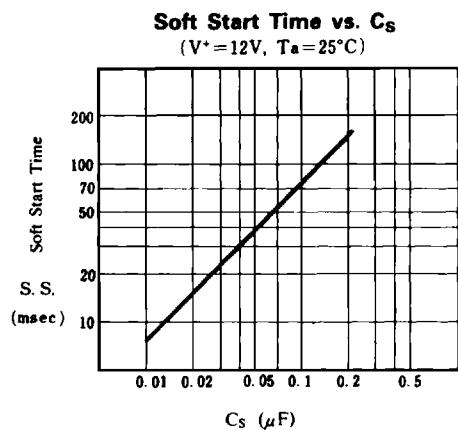
■ Typical Application



■ Typical Characteristics



■ Typical Characteristics



■ Test Circuit

