

NJM2360A

The NJM2360A is a control circuit containing the primary functions required for DC to DC CONVERTOR.

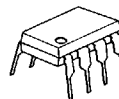
This device consists of high precision reference, comparator controlled duty cycle oscillator with an active current limit circuit, driver and high current output switch.

This IC was specifically designed to be incorporated in "STEP-Down", "STEP-UP" and "Voltage-Inverting" applications with a minimum number of external components. This IC is designed to be $\pm 5\%$ output voltage by using precision 1% resistance on external detected resistance.

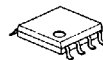
Feature

Operation from 2.5V to 40V input
Precision Reference V_{th} $1.25V \pm 2\%$
Output Switch Current 1.5A (MAX)
Frequency of Operation f_{osc} 100Hz~100kHz
Current Limiting

Package Outline



NJM2360D



NJM2360M

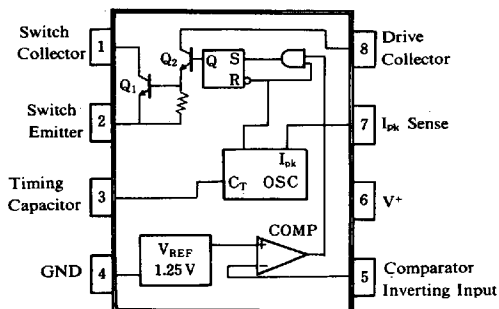
Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Supply Voltage	V^+	40V
Comparator Input Voltage Range	V_{IR}	$-0.3 \sim 40V$
Power Dissipation	P_D (D-Type)	875mW (note)
	(M-Type)	700mW (note)
Switch Current	I_{SW}	1.5A
Operating Temperature Range	T_{opr}	$-20 \sim +75^\circ\text{C}$
Storage Temperature Range	T_{sig}	$-40 \sim +150^\circ\text{C}$
(note) At on PC board		

Recommended Operating Conditions

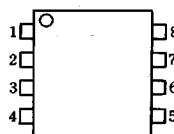
Supply Voltage	V^+	2.5~40V
Output Voltage	V_{OR}	1.25~40V
Oscillator Frequency	f_{osc}	100Hz~100kHz

Block Diagram



Connection Diagram

(Top View)



PIN FUNCTION

1. C_S
2. E_S
3. C_T
4. GND
5. INV_{IN}
6. V^+
7. S_I
8. C_D