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NTE7037 Integrated Circuit Module, 2 Output Positive Voltage Regulator for VCR

Features:

- 2 Outputs
- Output Voltage Select Function

Absolute Maximum Ratings: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Maximum DC Input Voltage, V_{IN} (DC) Max	30V
Maximum Average Output Current, I_O Max	
V_{O1}	1.0A
V_{O2}	1.0A
Maximum Peak Output Current (Note 1), I_O Max	
V_{O1}	2.0A
V_{O2}	2.0A
Operating Case Temperature, T_C Max	$+105^\circ\text{C}$
Maximum Junction Temperature, T_J Max	$+150^\circ\text{C}$
Storage Temperature Range, T_{stg}	-30° to $+105^\circ\text{C}$
Thermal Resistance, Junction-to-Case, R_{thJC}	7°C/W

Note 1. Peak Current: For 0.2sec Max.

Electrical Characteristics: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Parameter	Test Conditions	V _{O1}	V _{O2}	Unit
Output Voltage Setting	Condition 1, Note 2	9.5±0.1	5.5±0.1	V
Output Cutoff Residual Voltage	Condition 1, Note 3	0.1	0.1	V Max
Ripple Voltage	Condition 1	5	5	mV _{p-p} Max
Temperature Coefficient	Condition 1	0.02	0.035	%/ $^\circ\text{C}$ Max
Input Regulation	Condition 2	10	10	mV/V Max
	Condition 3	2	2	
Load Regulation	Condition 4	50	50	mV/A Max
Minimum Input-Output Voltage Difference	Condition 5	1.2	1.2	V Max

Note 2. Measurement must be made within 1 to 2 sec. after input switch is ON.

Note 3. When Pin7 is at High level (3V to 15V), V_{O1} , V_{O2} are turned ON.
 When Pin7 is at Low level (0.6V or less), V_{O1} , V_{O2} are turned OFF.

Test Conditions:

Condition 1: $V_B = 45V$, $V_{IN} (DC) 1 = 13V$, $V_{IN} (DC) 2 = 9V$, Ripple = $1.5mV_{p-p}$
 $I_{O1} = 0.5A$, $I_{O2} = 0.5A$

Condition 2: $V_B = 45V \pm 5V$, $V_{IN} (DC) 1 = 13V$, $V_{IN} (DC) 2 = 9V$,
 $I_{O1} = 0.5A$, $I_{O2} = 0.5A$

Condition 3: $V_B = 45V$, $V_{IN} (DC) 1 = 10.9V$ to $16V$, $V_{IN} (DC) 2 = 16.9V$ to $12V$,
 $I_{O1} = 0.5A$, $I_{O2} = 0.5A$

Condition 4: $V_B = 45V$, $V_{IN} (DC) 1 = 13V$, $V_{IN} (DC) 2 = 9V$, $I_{O1} = 0.1A$ to $1A$,
 $I_{O2} = 0.1A$ to $1A$

Condition 5: $V_B = 45V$, $I_{O1} = 1A$, $I_{O2} = 1A$

Pin Connection Diagram
(Front View)

