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NTE7027 Integrated Circuit Module, 3 Output Positive Voltage Regulator for VCR

Features:

- 3 Outputs

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
V_{O3}	0.5A
Maximum Peak Output Current (Note 1), I_O Max	
V_{O1}	2.0A
V_{O2}	2.0A
V_{O3}	0.5A
Operating Case Temperature, T_C Max	+105°C
Junction Temperature, T_J Max	+150°C
Storage Temperature Range, T_{stg}	-30° to +105°C
Thermal Resistance, Junction to Case, $R_{\theta JC}$	
V_{O1}, V_{O2}	4.5°C/W
V_{O3}	10°C/W

Note 1. Peak Current: For 0.1sec Max.

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

Parameter	Test Conditions	V_{O1}	V_{O2}	V_{O3}	Unit
Output Voltage Setting	Condition 1, Note 2	12.0 ±0.1	12.0 ±0.1	5.1 ±0.1	V
Ripple Voltage	Condition 2	5	5	3	mV _{p-p} Max
Temperature Coefficient	Condition 1	0.02	0.02	0.02	%/°C Max
Input Regulation	Condition 3	35	35	5	mV/V Max
Load Regulation	Condition 4	40	40	100	mV/A Max
Minimum Input-Output Voltage Difference	Condition 5	1.2	1.2	2.5	V Max

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

Test Conditions:

Condition 1: $V_{IN} (DC) 1 = 17V$, $V_{IN} (DC) 2 = 9V$, $I_{O1} = 0.5A$, $I_{O2} = 0.5A$, $I_{O3} = 0.3A$

Condition 2: $V_{IN} (DC) 1 = 17V$, $V_{IN} (DC) 2 = 9V$, $I_{O1} = 0.5A$, $I_{O2} = 0.5A$, $I_{O3} = 0.3A$
Input Ripple $1.5V_{P-P}$

Condition 3: $V_{IN} (DC) 1 = 15V$ to $20V$, $V_{IN} (DC) 2 = 7.7V$ to $10.5V$, $I_{O1} = 0.5A$, $I_{O2} = 0.5A$, $I_{O3} = 0.3A$

Condition 4: $V_{IN} (DC) 1 = 17V$, $V_{IN} (DC) 2 = 9V$, $I_{O1} = I_{O2} = 0.2A$ to $1A$, $I_{O3} = 0A$ to $0.5A$

Condition 5: $I_{O1} = 0.5A$, $I_{O2} = 0.5A$, $I_{O3} = 0.3A$, $I_{B1} = I_{B2} = 2mA$

Pin Connection Diagram
(Front View)

