ELECTRONICS, INC.
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NTE7034
Integrated Circuit
Module, 3 Output Positive Voltage Regulator for VCR

Features:
- 3 Outputs
- Output Voltage Select Function

Absolute Maximum Ratings: (T_A = +25°C)

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 . . . . . 1.0A

Maximum Peak Output Current (Note 1), I_O Max
- V_O1 . . . . . 2.5A
- V_O2 . . . . . 2.5A
- V_O3 . . . . . 2.0A

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_{thJC} . . . . . 4.5°C/W

Note 1. Peak Current: For 0.2sec Max.

Electrical Characteristics: (T_A = +25°C unless otherwise specified)

Parameter	Test Conditions	V_O1	V_O2	V_O3	Unit
Output Voltage Setting	Condition 1	12.0 ±0.2	12.0±0.1	5.3±0.1	V
Output Cutoff Residual Voltage	Condition 1, Note 2	12.0 ±0.2	0.1	0.1	V Max
Ripple Voltage	Condition 2	10	5	5	$mV_{p–p}$ Max
Temperature Coefficient	Condition 1	0.02	0.02	0.02	%/°C Max
Input Regulation	Condition 2	10	10	2	mV/V Max
	Condition 3	2	2	2	
Load Regulation	Condition 4	35	35	35	mV/A Max
Minimum Input–Output Voltage Difference	Condition 5	1.2	1.2	1.2	V Max

Note 2. External setting available

Test Conditions:

Condition 1: V_B = 40V, Ripple = 6mV_{p-p}
V_{IN} (DC) 1 = 17V, I_O1 = 0.5A, Input Ripple Voltage = 2V_{p-p},
V_{IN} (DC) 2 = 9V, I_O2 = 0.5A, I_O3 = 0.5A, Input Ripple Voltage = 2V_{p-p}

Condition 2: V_B = 40V ±6V
V_{IN} (DC) 1 = 17V, I_O1 = 0.5A
V_{IN} (DC) 2 = 9V, I_O2 = 0.5A, I_O3 = 0.5A

Condition 3: V_B = 40V
V_{IN} (DC) 1 = 14.5V to 22V, I_O1 = 0.5A
V_{IN} (DC) 2 = 6.5V to 12V, I_O2 = 0.5A, I_O3 = 0.5A

Condition 4: V_B = 40V
V_{IN} (DC) 1 = 17V, I_O1 = 0 to 1A, I_O3 = 0 to 1A
V_{IN} (DC) 2 = 9V, I_O2 = 0 to 1A

Condition 5: V_B = 40V, I_O1 = I_O2 = I_O3 = 1A

Pin Connection Diagram
(Front View)