

NTE7076 Integrated Circuit Module – 100W Offline Switching Regulator

Features:

- Easy to Constitute Multi-Output
- Built-In Overcurrent Protector
- Remote ON/OFF Control Pin Connectable

Functions:

- Pulse Width Modulator
- Oscillator
- Control
- Error Amp

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

Maximum Pin Voltage,		
Pin16, TR5 Base bias – 6V, $V_{16\text{max}}$	800Vpk	
Pin11, $V_{11\text{max}}$	–12V	
Pin10, $V_{10\text{max}}$	12V	
Pin1, TR1 Base bias – 1V, $V_{1\text{max}}$	400V	
Maximum Pin Current,		
Pin16, $I_{16\text{max}}$	5Apk	
Pin10, $I_{10\text{max}}$	1.2Apk	
Pin1, $I_{1\text{max}}$	120mA	
Operating Case Temperature, $T_{C\text{max}}$		+85°C
Storage Temperature Range, T_{stg}		–30° to +100°C

Recommended Operating Conditions: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Recommended Supply Voltage, V_{CC}	280V
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Electrical Characteristics: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
TR5 Current Amplification Factor	h_{FE5}	$V_{CE} = 5V, I_C = 1A$	8	–	–	
TR1 Current Amplification Factor	h_{FE1}	$V_{CE} = 10V, I_C = 10A$	60	–	–	
ZD1 Zener Voltage	V_{Z1}	$I_Z = 5mA$	–	7.5	–	V
ZD2 Zener Voltage	V_{Z2}	$I_Z = 5mA$	–	6.2	–	V
Oscillation Frequency	f_{OSC}		–	33	–	kHz

Equivalent Circuit

