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## 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, $T_{\text{stg}}$ .....	
–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

