

ABSOLUTE MAXIMUM RATINGS^(1,5)

DRAIN Voltage	-0.3 V to 700 V	Lead Temperature ⁽⁴⁾	260 °C
DRAIN Peak Current: TNY274.....	400 (750) mA ⁽²⁾	Notes:	
TNY275.....	560 (1050) mA ⁽²⁾	1. All voltages referenced to SOURCE, T _A = 25 °C.	
TNY276.....	720 (1350) mA ⁽²⁾	2. The higher peak DRAIN current is allowed while the DRAIN voltage is simultaneously less than 400 V.	
TNY277.....	880 (1650) mA ⁽²⁾	3. Normally limited by internal circuitry.	
TNY278.....	1040 (1950) mA ⁽²⁾	4. 1/16 in. from case for 5 seconds.	
TNY279	1200 (2250) mA⁽²⁾	5. Maximum ratings specified may be applied one at a time, without causing permanent damage to the product.	
TNY280	1360 (2550) mA ⁽²⁾	Exposure to Absolute Maximum Rating conditions for extended periods of time may affect product reliability.	
EN/UV Voltage	-0.3 V to 9 V		
EN/UV Current	100 mA		
BP/M Voltage	-0.3 V to 9 V		
Storage Temperature	-65 °C to 150 °C		
Operating Junction Temperature ⁽³⁾	-40 °C to 150 °C		

THERMAL IMPEDANCE

Thermal Impedance: P or G Package:	Notes:
(θ_{JA})	1. Measured on the SOURCE pin close to plastic interface.
(θ_{JC}) ⁽¹⁾	2. Soldered to 0.36 sq. in. (232 mm ²), 2 oz. (610 g/m ²) copper clad.
	3. Soldered to 1 sq. in. (645 mm ²), 2 oz. (610 g/m ²) copper clad.

Parameter	Symbol	Conditions		Min	Typ	Max	Units
		SOURCE = 0 V; T _J = -40 to 125 °C See Figure 16 (Unless Otherwise Specified)					
CONTROL FUNCTIONS							
Output Frequency in Standard Mode	f _{OSC}	T _J = 25 °C See Figure 4	Average	124	132	140	kHz
			Peak-to-peak Jitter		8		
Maximum Duty Cycle	DC _{MAX}	S1 Open		62	65		%
EN/UV Pin Upper Turnoff Threshold Current	I _{DIS}			-150	-115	-90	μA
EN/UV Pin Voltage	V _{EN}	I _{EN/UV} = 25 μA		1.8	2.2	2.6	V
		I _{EN/UV} = -25 μA		0.8	1.2	1.6	
DRAIN Supply Current	I _{S1}	EN/UV Current > I _{DIS} (MOSFET Not Switching) See Note A			290		μA
	I _{S2}	EN/UV Open (MOSFET Switching at f _{OSC}) See Note B	TNY274		275	360	μA
			TNY275		295	400	
			TNY276		310	430	
			TNY277		365	460	
			TNY278		445	540	
			TNY279		510	640	
TNY280		630	760				

