

NTE6415 thru NTE6419 Bidirectional Thyristor Diodes (SIDAC)

Description:

The NTE6415 through NTE6419 SIDAC devices are silicon bilateral voltage triggered switches with greater power handling capabilities than standard DIACs. Upon application of a voltage exceeding the SIDAC breakover voltage point, the SIDAC switches on through a negative resistance region to a low on–state voltage. Conduction will continue until the current is interrupted or drops below the minimum holding current of the device.

Features:

- Especially Effective in AC Circuits
- Switching Function Directly with the AC Power Line
- Applicable for Various Pulse Generators

Applications:

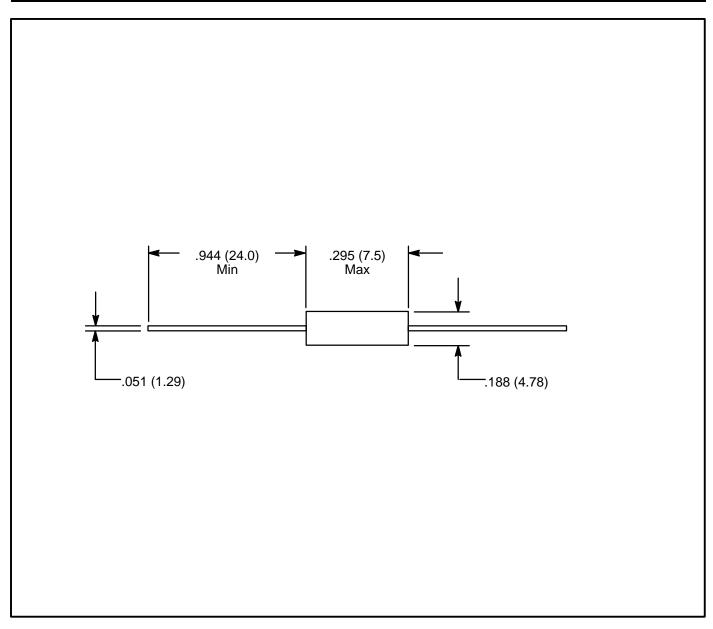
Applications:						
•	High Voltage Lamp Ignitors	•	Xenon Ignitors			
•	Natural Gas Ignitors	•	Overvoltage Protection			
•	Gas Oil Ignitors	•	Pulse generators			
•	High Voltage Power Supplies	•	Fluorescent Lighting Ignitors			

Absolute Maximum Ratings:

Peak Off Voltage, V _{DRM}
NTE6415, NTE6416 45V
NTE6417, NTE6418, NTE6419 90V
Effective Current (T _A = +40°C, 50Hz, Sine Wave, Conducting Angle = 180°), I _T 1A
Surge Current (50Hz, Non–Repeated 1 Cycle Sine wave, Peak Value), I _{TSM}
Peak Current ($T_A = +40$ °C, Pulse Width = $10\mu s$, f = $1kHz$), I_{TRM}
Current Rise Rate, di/dt 50A/µs
Maximum Operating Junction Temperature, T _J
Storage Temperature Range, T _{stg} —30° to +125°C
Thermal Resistance, Junction–to–Case, R _{thJC}
Lead Temperature (During Soldering, 5mm from case, 5sec max), T _L +250°C

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

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Breakover Voltage NTE6415	V _{BO}	50Hz Sine wave, I _B = 0	45	_	60	V
NTE6416			55	_	65	V
NTE6417	1		95	_	113	V
NTE6418	1		104	_	118	V
NTE6419	1		110	_	125	V
Peak Off Current	I _{DRM}	50Hz Sine Wave, V = Rated V _{DRM}	_	_	10	μΑ
Breakover Current	I _{BO}	50Hz Sine Wave	_	_	0.5	mA
Holding Current	I _H	50Hz Sine Wave	_	50	_	mA
ON Voltage	V _T	I _T = 1A	_	_	1.5	V
Switching Resistance	R _S	50Hz Sine Wave	0.1	_	_	kΩ



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