



ELECTRONICS, INC.
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NTE5826 & NTE5827 Power Rectifier Diode, Glass Passivated, 50 Amp, Press Fit

Features:

- Glass Passivated Die Construction
- Low Leakage
- High Surge Current Capability
- Typical I_R less than $5\mu A$
- Rugged Construction
- Available in Standard (NTE5826) and Reverse (NTE5827) Polarity

Absolute Maximum Ratings: ($T_A = +25^\circ C$ unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%)

Peak Repetitive Reverse Voltage, V_{RRM}	
NTE5826, NTE5827*	400V
Working Peak Reverse Voltage, V_{RWM}	
NTE5826, NTE5827*	400V
DC Blocking Voltage, V_R	
NTE5826, NTE5827*	400V
RMS Reverse Voltage, $V_{R(RMS)}$	
NTE5826, NTE5827*	280V
Average Rectified Forward Current ($T_C = +150^\circ C$), I_O	50A
Non-Repetitive Peak Surge Current, I_{FSM}	
(8.3ms Single half Sine-Wave Superimposed on Rated Load)	500A
Forward Voltage ($I_F = 50A$), V_{FM}	1.0V
Peak Reverse Current ($V_R = 400V$), I_{RM}	
$T_A = +25^\circ C$	5.0 μA
$T_A = +100^\circ C$	500 μA
Typical Junction Capacitance (Note 2), C_J	400pF
Operating Junction Temperature Range, T_J	-65° to +175°C
Storage Temperature Range, T_{stg}	-65° to +175°C
Maximum Thermal Resistance, Junction-to-Case (Note 3), R_{thJC}	1.0°C/W

Note 1. Standard polarity is cathode to case, (*) indicated anode to case.

Note 2. Measured at 1.0MHz and applied reverse voltage of 4.0VDC.

Note 3. Thermal Resistance: Junction-to-case, single side cooled.

