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NTE625 & NTE626
Silicon Rectifier
Fast Recovery

Description:

The NTE625 and NTE626 are fast recovery silicon rectifiers in a 2–Lead TO220 type package designed for special applications such as DC power supplies, inverters, converters, ultrasonic systems, choppers and low RF interference.

Features:

- Low Forward Voltage
- High Current Capability
- Fast Switching for High Efficiency
- High Surge Capacity
- Glass Passivated Chip Junction

Absolute Maximum Ratings:

Peak Repetitive Reverse Voltage, V_{RRM}
- NTE625 . . . . . 200V
- NTE626 . . . . . 600V

Working Peak Reverse Voltage, V_{RWM}
- NTE625 . . . . . 200V
- NTE626 . . . . . 600V

DC Blocking Voltage, V_R
- NTE625 . . . . . 200V
- NTE626 . . . . . 600V

RMS Reverse Voltage, $V_{R(RMS)}$
- NTE625 . . . . . 140V
- NTE626 . . . . . 420V

Average Rectifier Forward Current (Rated V_R, T_C = +50°C), $I_{F(AV)}$ 8A

Non–Repetitive Peak Surge Current, I_{FSM}
- (8.3ms Single half Sine–Wave Superimposed on Rated Load) 150A

Operating Junction Temperature Range (Reverse Voltage Applied), T_J . . . . . –65° to +175°C

Storage Temperature Range (Reverse Voltage Applied), T_{stg} . . . . . –65° to +175°C

Electrical Characteristics:

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Instantaneous Forward Voltage	V_F	I_F = 8A	–	–	1.3	V
Instantaneous Reverse Current	I_R	At Rated V_R, T_C = +25°C	–	–	10	μA
		At Rated V_R, T_C = +100°C	–	–	250	μA
Junction Capacitance	C_P	Note 1	–	50	–	pF
Reverse Recovery Time NTE625	t_{rr}	I_F = 0.5A, I_R = 1A, i_{rr} = 0.25A	–	–	150	ns
NTE626			–	–	250	ns

Note 1. Measured at 1MHz and applied reverse voltage of 4V.