



ELECTRONICS, INC.
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NTE6368 & NTE6369 Silicon Power Rectifier Stud Mount, Fast Recovery, 250 Amp

Features:

- Fast Recovery Times
- Soft Recovery Characteristics
- Standard (NTE6368) and Reverse (NTE6369) Polarities
- High Surge Current Ratings
- High Rated Blocking Voltages

Applications:

- Inverters
- Choppers
- Transmitters
- Free Wheeling Diode

Absolute Maximum Ratings:

RMS Forward Current, $I_{F(RMS)}$	400A
Average Forward Current, $I_{F(AV)}$	250A
One-Half Cycle Surge Current, I_{FSM}	4500A
I^2t for Fusing (Times $\geq 8.3ms$), I^2t	85000A ² sec
Operating Junction Temperature Range, T_J	-40° to +190°C
Storage Temperature Range, T_{stg}	-40° to +150°C
Thermal Resistance, Junction-to-Case, R_{thJC}	0.17°C/W
Thermal Resistance, Case-to-Sink (Lubricated), R_{thCS}	0.10°C/W
Mounting Torque (Lubricated)	360 (40.06) in•lb (m•N)

Electrical Characteristics:

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	Rated Limit	-	-	1600	V
Non-Repetitive Trans. Peak Reverse Voltage	V_{RSM}	Rated Limit, $t \leq 5ms$	-	-	1800	V
Reverse Leakage Current (Peak)	I_{RRM}	$V_{RRM} = 1400V, T_J = +190^\circ C$	-	-	50	mA
Forward Voltage Drop	V_F	$I_F = 800A, T_J = +25^\circ C$	-	-	2.0	V
Reverse Recovery Time	t_{rr}	$I_{FM} = 785A, t_p = 100\mu s, di_F/dt = 25A/\mu s, T_C = +25^\circ C$	-	-	1.0	μs

