

## NTE569 Silicon Rectifier Fast Switching, Soft Recovery

**Features:**

- Fast Recovery
- Diffused Junction
- High Surge Capability

**Absolute Maximum Ratings:**

Peak Recurrent and Non-Recurrent Reverse Voltage, $V_{RRM}$ .....	600V
Forward Current (R Load, $T_A = +50^\circ\text{C}$ ), $I_{F(AV)}$ .....	3A
Recurrent Peak Forward Current, $I_{FRM}$ .....	15A
Peak Forward Surge Current (10ms, $T_A = +25^\circ\text{C}$ ), $I_{FSM}$ .....	100A
Maximum Reverse Recovery Time ( $I_F = 0.5\text{A}$ to $I_R = 1\text{A}$ with $I_{rr} = 0.25\text{A}$ ), $t_{rr}$ .....	250ns
Maximum Operating Junction Temperature $T_J$ .....	$+150^\circ\text{C}$
Storage Temperature Range, $T_{stg}$ .....	$-65^\circ$ to $+150^\circ\text{C}$
Lead Temperature (During Soldering, 4mm from case, 3.5sec), $T_L$ .....	$+350^\circ\text{C}$
Maximum Thermal Resistance, Junction-to-Case, $R_{thJC}$ .....	$30^\circ\text{C/W}$

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Maximum Forward Voltage Drop	$V_F$	$I_F = 3\text{A}$	–	–	1.3	V
Maximum Reverse Current	$I_R$	$V_{RRM} = 600\text{V}$	–	–	10	$\mu\text{A}$

