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NTE638 Damper Diode

Absolute Maximum Ratings:

Peak Reverse Voltage, V_{RM}	1600V
Average Rectified Forward Current, $I_{F(AV)}$	2.5A
Non-Repetitive Peak Forward Surge Current, I_{FSM} (50Hz, Half-Cycle Sinewave, Single Shot)	50A
Operating Junction Temperature, T_J	-40 ° to +150°C
Storage Temperature Range, T_{STG}	-40 ° to +150°C
Thermal Resistance, Junction-to-Ambient, R_{thJA}	10°C/W
Thermal Resistance, Junction-to-Case, R_{thJC}	10°C/W

Note 1. These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage	V_F	$I_F = 2.5\text{A}$	-	-	1.3	V
Reverse Leakage	I_R	$V_R = 1600\text{V}$	-	-	50	μA
		$V_R = 1600\text{V}, T_A = +100^\circ\text{C}$	-	-	500	μA
Reverse Recovery Time	t_{rr}	$I_F = I_R = 100\text{mA}, 90\% \text{ Recovery Point}$	-	-	4.0	ns
		$I_F = 100\text{mA}, I_R = 200\text{mA}, 75\% \text{ Recovery Point}$	-	-	1.3	ns

