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## NTE638 Damper Diode for TV Applications

**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	$V_F$	$I_F = 2.5A$	-	-	1.3	V
Reverse Leakage	$I_R$	$V_R = 1600V$	-	-	50	$\mu A$
		$V_R = 1600V, T_A = +100^\circ C$	-	-	500	$\mu A$
Reverse Recovery Time	$t_{rr}$	$I_F = I_R = 100mA, 90\% \text{ Recovery Point}$	-	-	4.0	ns
		$I_F = 100mA, I_R = 200mA, 75\% \text{ Recovery Point}$	-	-	1.3	ns

