

NTE1181 Integrated Circuit FM Stereo Multiplex Demodulator

Absolute Maximum Ratings: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Supply Voltage (V_{4-11}), V_{CC}	12V
Circuit Voltage, V_{10-11}	24V
Circuit Current, I_4	19mA
Lamp Current, I_{10}	100mA
Power Dissipation, P_D	340mW
Operating Temperature Range, T_{opr}	-20° to $+75^\circ\text{C}$
Storage Temperature Range, T_{stg}	-65° to $+150^\circ\text{C}$

Recommended Operating Conditions: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Recommended Supply Voltage	V_{CC}		4	–	12	V

Electrical Characteristics: ($T_A = +25^\circ\text{C}$, $V_{CC} = 6\text{V}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Total Circuit Current	$I_{tot(off)}$	Lamp OFF	4	6	10	mA
	$I_{tot(on)}$	Lamp ON	5	8	12	mA
Channel Separation	Sep	$V_i = 200\text{mV}$, $f = 1\text{kHz}$, MOD, 100%	35	45	–	dB
Channel Balance	CB	$V_i = 200\text{mV}$, $f = 1\text{kHz}$	–	0.3	1.5	dB
ON Level		$f = 1\text{kHz}$, MOD, 100%	40	60	75	mV
Voltage Gain	G_V	$V_i = 200\text{mV}$, $f = 1\text{kHz}$	–5.0	–	–0.5	dB

Pin Connection Diagram

