

LM741

SNOSC25D – MAY 1998 – REVISED OCTOBER 2015

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Electrical Characteristics, LM741A⁽¹⁾ (continued)

PARAMETER		TEST CONDITIONS	MIN	TYP	MAX	UNIT
Output voltage swing		$V_S = \pm 20\text{ V}$	$R_L \geq 10\text{ k}\Omega$	± 16		V
			$R_L \geq 2\text{ k}\Omega$	± 15		
Output short circuit current		$T_A = 25^\circ\text{C}$	10	25	35	mA
		$T_{AMIN} \leq T_A \leq T_{AMAX}$	10		40	
Common-mode rejection ratio		$R_S \leq 50\text{ }\Omega$, $V_{CM} = \pm 12\text{ V}$, $T_{AMIN} \leq T_A \leq T_{AMAX}$	80	95		dB
Supply voltage rejection ratio		$V_S = \pm 20\text{ V}$ to $V_S = \pm 5\text{ V}$, $R_S \leq 50\text{ }\Omega$, $T_{AMIN} \leq T_A \leq T_{AMAX}$	86	96		dB
Transient response	Rise time	$T_A = 25^\circ\text{C}$, unity gain		0.25	0.8	μs
	Overshoot			6%	20%	
Bandwidth ⁽²⁾		$T_A = 25^\circ\text{C}$	0.437	1.5		MHz
Slew rate		$T_A = 25^\circ\text{C}$, unity gain	0.3	0.7		V/ μs
Power consumption		$V_S = \pm 20\text{ V}$	$T_A = 25^\circ\text{C}$	80	150	mW
			$T_A = T_{AMIN}$		165	
			$T_A = T_{AMAX}$		135	

(2) Calculated value from: BW (MHz) = 0.35/Rise Time (μs).