



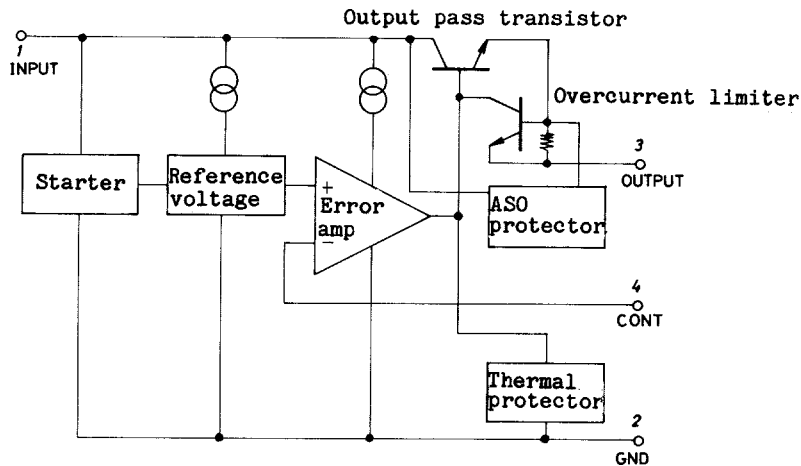
# L78MG

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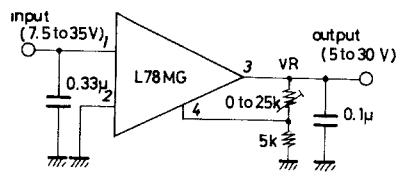
**Operating Characteristics** at  $T_a = 25^\circ\text{C}$ ,  $V_{IN}=10\text{V}$ ,  $I_{OUT}=350\text{mA}$ ,  $C_{IN}=0.33\mu\text{F}$ ,  $C_{OUT}=0.1\mu\text{F}$

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Input Voltage	$V_{IN}$	$T_j=25^\circ\text{C}$	7.5		35	V
Output Voltage	$V_{OUT}$	$V_{IN}=V_{OUT}+5$	5.0		30	V
Line Regulation (Referenced to output voltage)	$\Delta V_o$ LINE	$T_j=25^\circ\text{C}$ , $I_{OUT}=200\text{mA}$ , $V_{OUT}\leq 10\text{V}$ ( $V_{OUT}+2.5\text{V}\leq V_{IN}\leq (V_{OUT}+20\text{V})$ )		0.2	1.0	%
		$T_j=25^\circ\text{C}$ , $I_{OUT}=200\text{mA}$ , $V_{OUT}\geq 10\text{V}$ ( $V_{OUT}+3\text{V}\leq V_{IN}\leq (V_{OUT}+15\text{V})$ )		0.15	0.75	%
		( $V_{OUT}+3\text{V}\leq V_{IN}\leq (V_{OUT}+7\text{V})$ )		0.1	0.67	%
Load Regulation (Referenced to output voltage)	$\Delta V_o$ LOAD	$T_j=25^\circ\text{C}$ , $5\text{mA}\leq I_{OUT}\leq 500\text{mA}$ , $V_{IN}=V_{OUT}+7\text{V}$		0.2	1.0	%
Control Pin Current		$T_j=25^\circ\text{C}$		1.0	5.0	$\mu\text{A}$
Current Dissipation	$I_{CC}$	$T_j=25^\circ\text{C}$		2.8	5.0	mA
Ripple Rejection	Rrej	$8\text{V}\leq V_{IN}=18\text{V}$ , $V_{OUT}=5\text{V}$ , $f=120\text{Hz}$ , $I_{OUT}=300\text{mA}$ , $T_j=25^\circ\text{C}$	62	80		dB
		$8\text{V}\leq V_{IN}=18\text{V}$ , $V_{OUT}=5\text{V}$ , $f=120\text{Hz}$ , $I_{OUT}=100\text{mA}$	62			dB
Output Noise Voltage	$V_{NO}$	$10\text{Hz}\leq f\leq 100\text{kHz}$ , $V_{OUT}=5\text{V}$		8	40	$\mu\text{V}$
Minimum Input-Output Voltage Drop	$V_{DROP}$			2	2.5	V
Short Circuit Current	$I_{OS}$	$V_{IN}=35\text{V}$ , $T_j=25^\circ\text{C}$		100	600	mA
Peak Output Current	$I_{OP}$	$T_j=25^\circ\text{C}$	0.4	0.8	1.4	A
Reference Voltage		$T_j=25^\circ\text{C}$	4.8	5.0	5.2	V

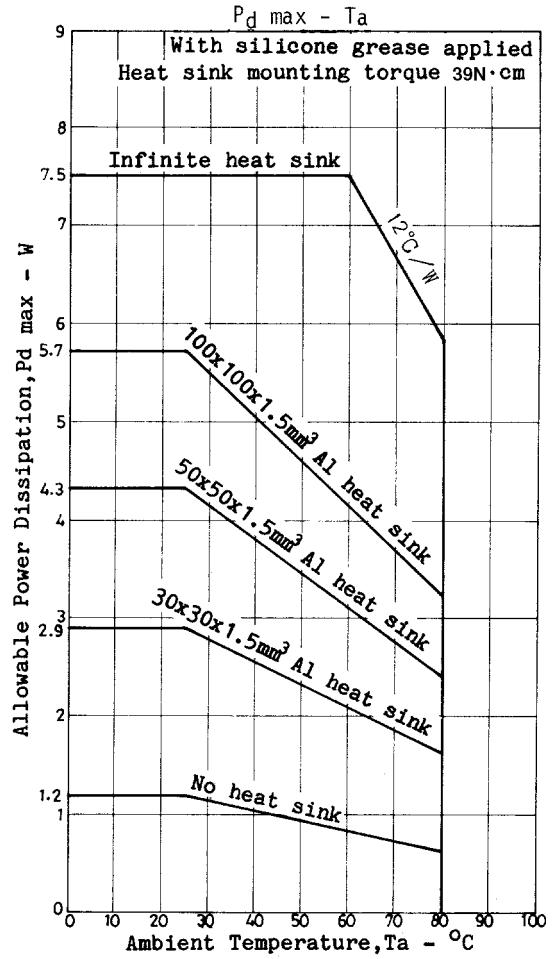
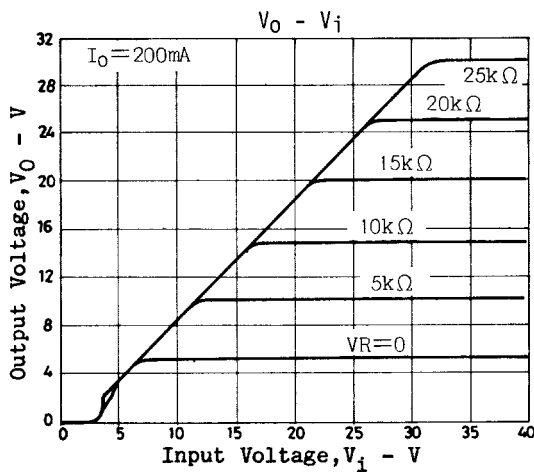
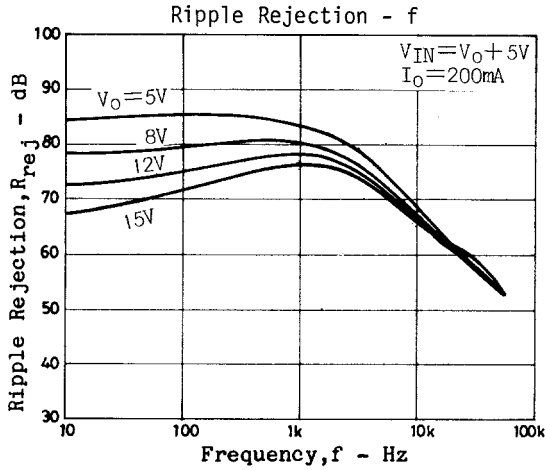
## Equivalent Circuit



## Sample Application Circuit



Unit (resistance:  $\Omega$ , capacitance: F)



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