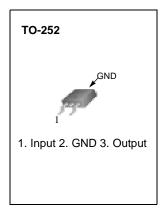


Features

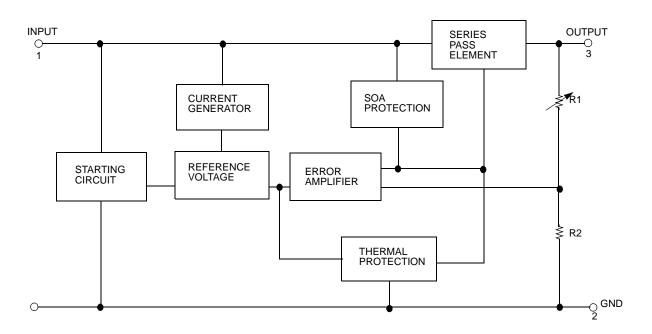
- Output Current up to 1A
- Output Voltages of 5V
- · Thermal Overload Protection
- Short Circuit Protection
- Output Transistor Safe Operating Area (SOA)Protection

Description

The 78MXX series of three-terminal package with several fixed output voltages making it useful in a wide range of applications.



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1



Absolute Maximum Ratings

Parameter	Symbol	Value	Unit	
Input Voltage (for V _O = 5V to 18V)	VI	30	V	
Thermal Resistance Junction-Case (Note1) TO-220 (Tc = +25°C)	R _θ JC	2.5	°C/W	
Thermal Resistance Junction-Air (Note1, 2) TO-220 (Ta = +25°C) D-PAK (Ta = +25°C)	ReJA	66 92	°C/W	
Operating Junction Temperature Range	TOPR	0 ~ +150	°C	
Storage Temperature Range	TSTG	-65 ~ +150	°C	

Note:

- Thermal resistance test board Size: 76.2mm * 114.3mm * 1.6mm(1S0P) JEDEC standard: JESD51-3, JESD51-7
- 2. Assume no ambient airflow

Electrical Characteristics (78M05)

(Refer to the test circuits, $0 \le TJ \le +125$ °C, IO=350mA, VI=10V, unless otherwise specified, CI = $0.33\mu F$, CO= $0.1\mu F$)

Parameter	Symbol	Conditions		Min.	Тур.	Max.	Unit
	Vo	T _J = +25°C		4.8	5	5.2	V
Output Voltage		IO = 5mA to 350mA VI = 7V to 20V		4.75	5	5.25	
Line Regulation (Note3)	ΔVο	IO = 200mA TJ =+25°C	V _I = 7V to 25V	-	-	100	- mV
			V _I = 8V to 25V	-	-	50	
Load Regulation (Note3)	ΔVο	IO = 5mA to 0.5A, TJ =+25°C		-	-	100	mV
		IO = 5mA to 200mA, TJ =+25 °C		-	-	50	
Quiescent Current	IQ	T _J =+25°C		-	4.0	6.0	mA
Quiescent Current Change	ΔlQ	I _O = 5mA to 350mA		-	-	1	mA
		I _O = 200mA V _I = 8V to 25V		-	-	0.8	
Output Voltage Drift	ΔV/ΔΤ	IO = 5mA T _J = 0 to +125°C		-	-0.5	-	mV/°C
Output Noise Voltage	VN	f = 10Hz to 100kHz		-	40	-	μV/Vo
Ripple Rejection	RR	f = 120Hz, I _O = 300mA V _I = 8V to 18V, T _J =+25 °C		-	80	-	dB
Dropout Voltage	VD	T _J =+25°C, I _O = 500mA		-	2	-	V
Short Circuit Current	Isc	TJ =+25°C, VI = 35V		-	300	-	mA
Peak Current	IPK	T _J =+25°C		-	700	-	mA

Note:

3. Load and line regulation are specified at constant junction temperature. Change in V₀ due to heating effects must be taken into account separately. Pulse testing with low duty is used.

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