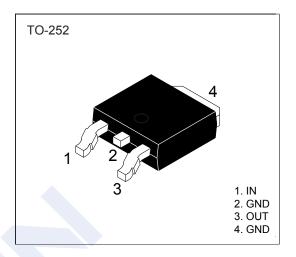
■ Features

- Maximum Output Current Io: 500mA
- Output Voltage Vo: 5V
- lacktriangle Continuous Total Dissipation PD: 1.25 W (T_a= 25 $^{\circ}$ C)



■ Absolute Maximum Ratings Over Operating Temperature Range(unless otherwise noted)

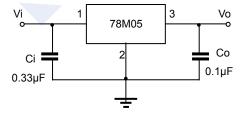
Parameter	Symbol	Rating	Unit	
Input Voltage	Vı	35	٧	
Maximum Output Current	lo	0.5	Α	
Thermal Resistance, Junction-to-Ambient	RthJA	80	°C/W	
Operating Junction Temperature Range	Topr	-25 to 125	$^{\circ}$	
Storage Temperature Range	Tstg	-65 to 150	C	

■ Electrical Characteristics at Specified Virtual Junction Temperature (Vi=10V, Io=350mA, Ci=0.33µF,Co=0.1µF,unless otherwise noted)

Parameter	Symbol	Test Conditions		Min	Тур	Max	Unit	
Output Voltage	Vo		25℃	4.8	5	5.2	V	
		7V≤Vi≤20V, lo= 5.0mA~350mA	-25 to 125℃	4.75	5	5.25	v	
Load Regulation	△Vo	Io= 5.0mA~500mA	25℃			100	mV	
		lo= 5.0mA~200mA	25℃			50		
Line Regulation	△Vo	7V≲Vi≤25V, lo=200mA	25℃			100		
		8V≲Vi≤25V, lo=200mA	25℃			50		
Quiescent Current	Iq		25℃			6		
Quiescent Current Change	△lq	8V≤Vi≤25V, lo=200mA	-25 to 125℃			0.8	mA	
		5mA≤lo≤350mA	-25 to 125℃			0.5		
Output Noise Voltage	Vn	10Hz≤F≤100kHz	25 ℃			200	μV/Vo	
Ripple Rejection	RR	8V≤Vi≤18V, F=120Hz, Io=300mA	-25 to 125℃	62			dB	
Dropout Voltage	Vd	Io=350mA	25℃			2.5	V	
Short Circuit Current Limit	Isc	Vi=10V	25℃		300		mA	
Peak Current	lpk		25℃		0.5		Α	

^{*} Pulse test.

■ Typical Application



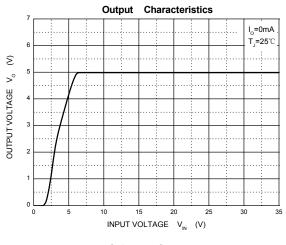
Note: Bypass capacitors are recommended for optimum stability and transient response and should be located as close as possible to the regulators.

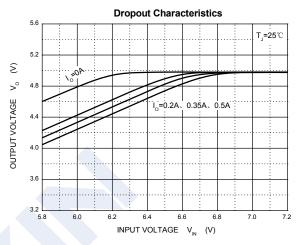
■ Marking

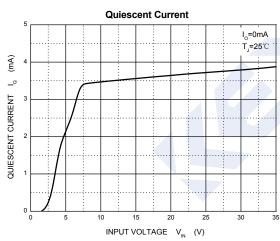
Marking	78M05 ******
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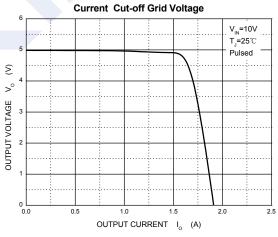


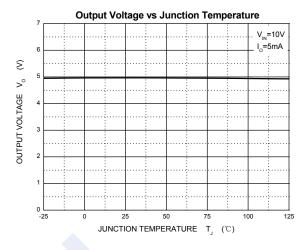
■ Typical Characterisitics

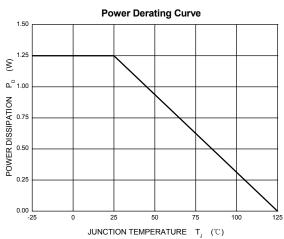




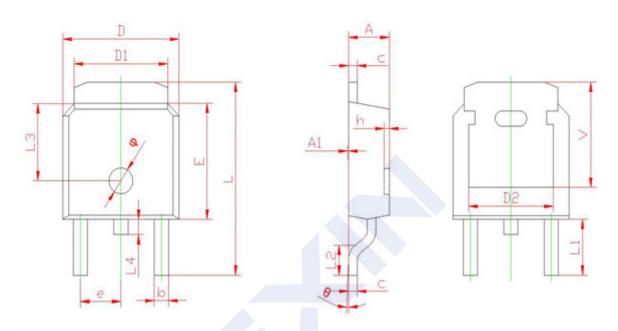








■ Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches		
Syllibol	Min.	Max.	Min.	Max.	
Α	2.200	2.400	0.087	0.094	
A1	0.000	0.127	0.000	0.005	
b	0.660	0.960	0.026	0.038	
С	0.460	0.580	0.018	0.023	
D	6.500	6.700	0.256	0.264	
D1	5.100	5.460	0.201	0.215	
D2	4.800	4.800 REF 0.189 R		REF	
Е	6.000	6.200	0.236	0.244	
е	2.186	2.386	0.086	0.094	
L	9.800	10.400	0.386	0.409	
L1	2.900 REF		0.114 REF		
L2	1.400	1.700	0.055	0.067	
L3	4.00 REF		0.157 REF		
L4	0.600	1.000	0.024	0.039	
φ	1.200	1.400	0.043	0.051	
θ	0°	8°	0°	8°	
h	0.000	0.300	0.000	0.012	
V	5.500 REF		0.217 REF		

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