

FEATURE

- Low gate charge
- Low C_{iss}
- Fast switching
- 100% avalanche tested
- Improved dv/dt capability

output current

 $I_{OM}: 0.5 \text{ A}$

Output voltage

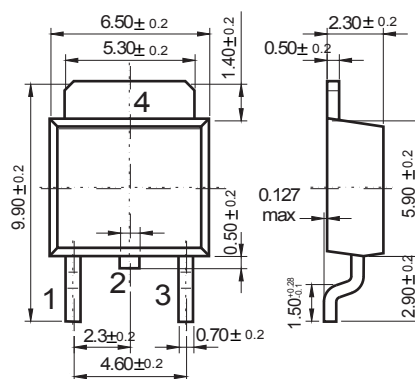
 $V_O: 5V$

Continuous total dissipation

P_D : 1.25 W ($T_a = 25^\circ\text{C}$)

TO-252-2(DAPK)

Unit: mm



Dimensions in inches and (millimeters)

ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

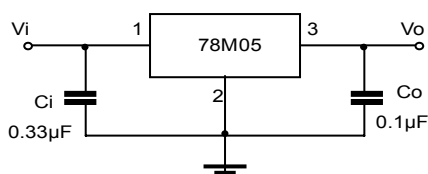
Parameter	Symbol	Value	Unit
Input Voltage	V _I	35	V
Thermal Resistance from Junction to Ambient	R _{θJA}	80	°C/W
Operating Junction Temperature Range	T _{OPR}	-25~+125	°C
Storage Temperature Range	T _{STG}	-65~+150	°C

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE ($V_i=10V, I_o=350mA, C_i=0.33\mu F, C_o=0.1\mu F$, unless otherwise specified)

Parameter	Symbol	Test conditions		Min	Typ	Max	Unit
Output Voltage	Vo		25°C	4.8	5	5.2	V
		7V≤V _i ≤20V, Io=5mA-350mA	-25~125°C	4.75	5	5.25	V
Load Regulation	ΔVo	Io=5mA-0.5A	25°C		15	100	mV
		Io=5mA-200mA	25°C		5	50	mV
Line Regulation	ΔVo	7V≤V _i ≤25V, Io=200mA	25°C		3	100	mV
		8V≤V _i ≤25V, Io=200mA	25°C		1	50	mV
Quiescent Current	Iq		25°C		4.2	6	mA
Quiescent Current Change	ΔIq	8V≤V _i ≤25V, Io=200mA	-25~125°C			0.8	mA
	ΔIq	5mA≤Io≤350mA	-25~125°C			0.5	mA
Output Noise Voltage	V _N	10Hz≤ f ≤100KHz	25°C		40	200	μV/Vo
Ripple Rejection	RR	8V≤V _i ≤18V,f=120Hz,Io=300mA	-25~125°C	62	80		dB
Dropout Voltage	V _d	Io=350mA	25°C		2	2.5	V
Short Circuit Current	Isc	Vi=10V	25°C		300		mA
Peak Current	Ipk		25°C		0.5		A

* 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.

RATING AND CHARACTERISTIC CURVES (78M05)

