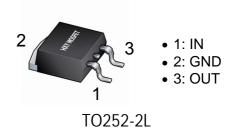


FEATURES

- Available Output Voltage:5.0V
- Maximum Input Voltage: 35V
- Maximum Output Current: Exceed 500mA at T_J = 25°C
- Output Tolerances: ±3% at T_J = 25°C ±5% over the Operating T_J
- No External Components

Applications

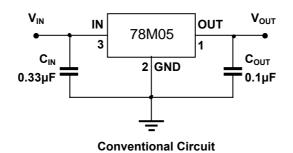
- Motor Drives
- On-Card Regulation
- Portable Devices
- Telecommunications
- TVs and Set-top Boxes



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)	
78M05	TO252-2L	78M05	2500	

Typical Application Circuit





Absolute Maimum Ratings

CHARACTERISTIC	SYMBOL	VALUE	UNIT
Maximum input voltage	V _{IN}	35	V
Maximum junction temperature	T _{J Max}	150	°C
Storage temperature	T _{stg}	- 65 ~ 150	°C
Soldering temperature & time	T _{solder}	260°C, 10s	-

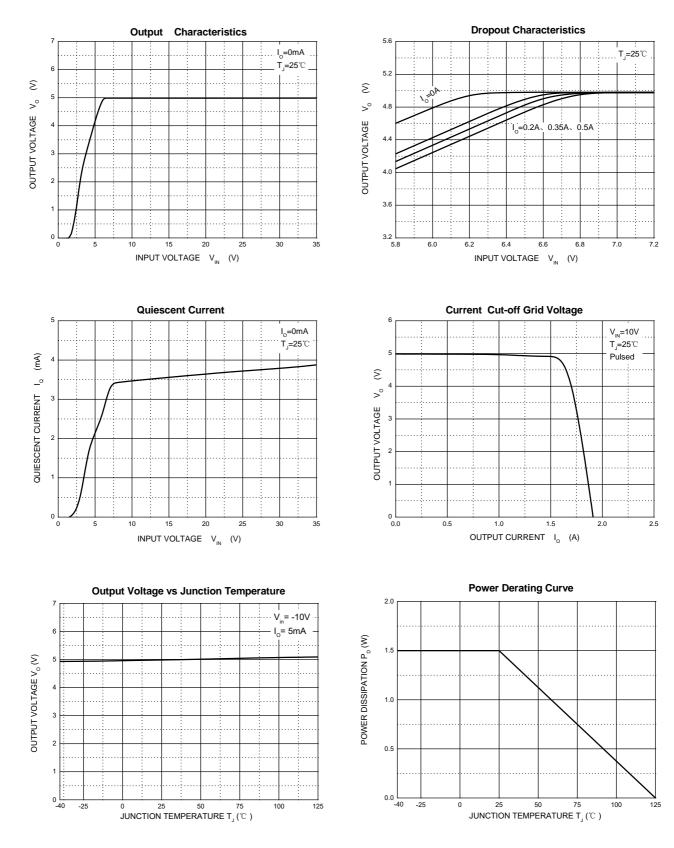
Electrical Characteristics

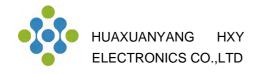
78M05 (V_{IN} = 10V, I_{OUT} = 350mA, C_{IN} = 0.33μ F, C_{OUT} = 0.1μ F, T_J = 25°C, unless otherwise specified)

CHARACTERISTIC	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT	
Output voltage	Vout	-	4.85	5.00	5.15	V	
		V _{IN} = 7 to 20V, I _{OUT} = 5 to 350mA	4.75	5.00	5.25		
Line regulation	LNR	V _{IN} = 7 to 25V, I _{OUT} = 200mA	-	3.0	100	m)/	
		V _{IN} = 8 to 25V, I _{OUT} = 200mA	-	1.0	50	mV	
Load regulation	LDR	I _{OUT} = 5 to 500mA	-	15	100	mV	
		I _{OUT} = 5 to 200mA	-	5.0	50		
Quiescent current	lq	-	-	4.2	6.0	mA	
Quiescent current		V_{IN} = 8 to 25V, I_{OUT} = 200mA	-	-	0.8		
change	Δlq	I _{OUT} = 5 to 350mA	-	-	0.5	mA	
Output noise voltage	V _N	f = 10 to 100kHz	-	40	200	μV	
Ripple rejection	RR	V _{IN} = 8 to 18V, I _{OUT} = 300mA, f = 120Hz	62	80	-	dB	
Dropout voltage	VD	Iout = 350mA	-	2.0	2.5	V	
Short circuit current	lsc	V_{IN} = 10V, OUT short to GND	-	300	-	mA	
Peak current	Peak	-	-	0.5	-	А	

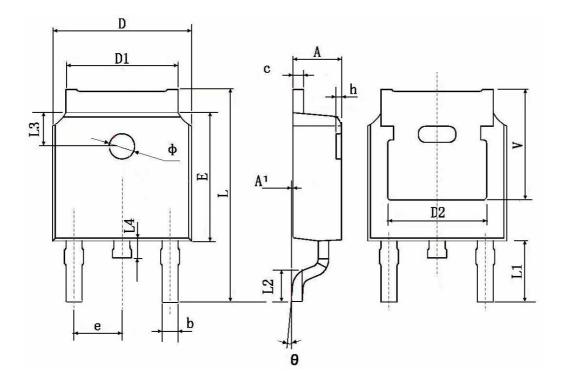


Typical Characteristics





TO252-2L Package Information



Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min.	Max.	Min.	Max.	
A	2.200	2.400	0.087	0.094	
A1	0.000	0.127	0.000	0.005	
b	0.660	0.860	0.026	0.034	
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	0.483	0.483 TYP.		TYP.	
E	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 TYP.		0.114 TYP.		
L2	1.400	1.700	0.055	0.067	
L3	1.600	TYP.	0.063 TYP.		
L4	0.600	1.000	0.024	0.039	
Φ	1.100	1.300	0.043	0.051	
θ	0°	8°	0°	8°	
h	0.000	0.300	0.000	0.012	
V	5.350	TYP.	0.211 TYP.		



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