MSKSEMI















ESD

TVS

TSS

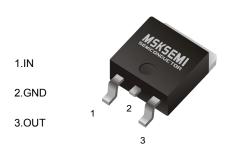
MOV

GDT

PLED

Broduct data sheet





TO-252

FEATURES

 $\begin{array}{c} \text{Maximum Output current} \\ I_{OM} \colon 0.5 \text{ A} \\ \text{Output voltage} \\ V_{O} \colon 5V \\ \text{Continuous total dissipation} \\ P_{D} \colon 1.25 \text{ W} \end{array}$

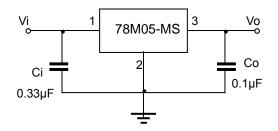
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

Parameter	Symbol	Value	Unit
Input Voltage	Vi	35	V
Operating Junction Temperature Range	T _{OPR}	0-+125	°C
Storage Temperature Range	T _{STG}	-65-+150	${\mathfrak C}$

 $\textbf{ELECTRICAL CHARACTERISTICS} \text{ (Vi=10V,lo=350mA, Ci=0.33} \mu\text{F,Co=0.1} \mu\text{F,unless otherwise specified)}$

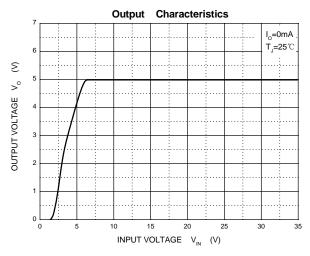
Parameter	Symbol	Test conditions		MIN	TYP	MAX	UNIT
			25℃	4.8	5	5.2	V
Output voltage	Vo	7V≤V i≤20V, Io=5mA-350mA	0-125℃	4.75	_	F 0F	
		Po≤ 15W		4.75	5	5.25	V
Load Regulation	ΔVο	Io=5mA-0.5A	25℃		15	100	mV
	Δνο	Io=5mA-200mA	25°C		5	50	mV
Line regulation	ΔVο	7V≤V _i ≤25V, Io=200mA	25°C		3	100	mV
		8V≤V _i ≤25V, Io=200mA	25°C		1	50	mV
Quiescent Current	lq		25°C		4.2	6	mA
0	Δlq	8V≤V _i ≤25V, Io=200mA	0-125℃			0.8	mA
Quiescent Current Change	Δlq	5mA≤l ₀ ≤350mA	0-125℃			0.5	mA
Output Noise Voltage	V _N	10Hz≤ f ≤100KHz	25°C		40	200	uV
Ripple Rejection	RR	8V≤V _i ≤18V,f=120Hz,lo=300mA	0-125℃	62	80		dB
Dropout Voltage	Vd	lo=350mA	25°C		2	2.5	V
Short Circuit Current	Isc	Vi=10V	25°C		300		mA
Peak Current	lpk		25℃		0.5		Α

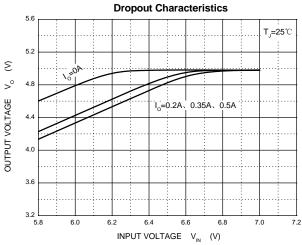
TYPICAL APPLICATION

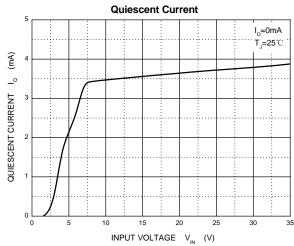


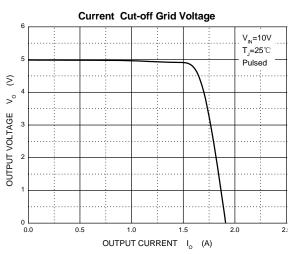


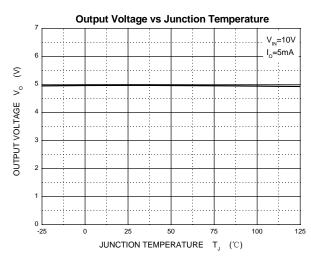


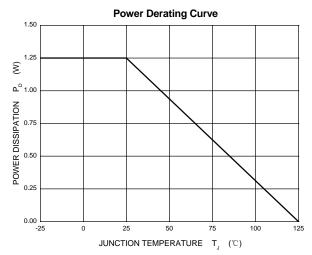












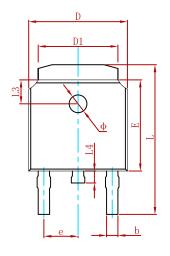


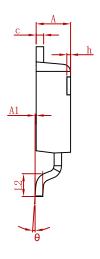


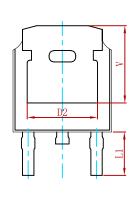




PACKAGE MECHANICAL DATA

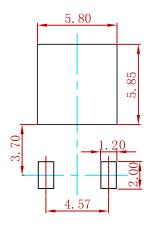






Cumbal	Dimensions In Millimeters		Dimensions In Inches		
Symbol	Min.	Max.	Min.	Max.	
Α	2.200	2.400	0.087	0.094	
A1	0.000	0.127	0.000	0.005	
b	0.635	0.770	0.025	0.030	
С	0.460	0.580	0.018	0.023	
D	6.500	6.700	0.256	0.264	
D1	5.100	5.460	0.201	0.215	
D2	4.830 REF.		0.190 REF.		
Е	6.000	6.200	0.236	0.244	
е	2.186	2.386	0.086	0.094	
L	9.712	10.312	0.382	0.406	
L1	2.900 REF.		0.114 REF.		
L2	1.400	1.700	0.055	0.067	
L3	1.600 REF.		0.063 REF.		
L4	0.600	1.000	0.024	0.039	
Ф	1.100	1.300	0.043	0.051	
θ	0°	8°	0°	8°	
h	0.000	0.300	0.000	0.012	
V	5.250 REF.		0.207 REF.		

Suggested Pad Layout



Note:

- 1.Controlling dimension:in millimeters.
- 2.General tolerance:± 0.05mm.
- 3. The pad layout is for reference purposes only.

REEL SPECIFICATION

P/N	PKG	QTY
78M05-MS	TO-252	2500



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