MSKSEMI















ESD

TVS

TSS

MOV

GDT

PLED

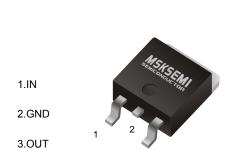
Broduct data sheet











TO-252

FEATURES

Maximum output current I_{OM}: 0.5 A Output voltage Vo: 6V

Continuous total dissipation

P_D: 1.25 W

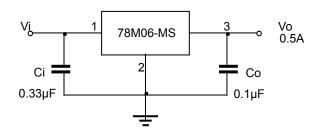
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

Parameter	Symbol	Value	Unit
Input Voltage	Vi	25	V
Operating Junction Temperature Range	T _{OPR}	0-+125	°C
Storage Temperature Range	T _{STG}	-65-+150	°C

 $\textbf{ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JINCTION TEMPERATURE} \ (Vi=11V, IQ=350mA, Ci=0.33 \mu F, Co=0.1 \mu F, unless otherwise specified)$

Parameter	Symbol	Test conditions		Min	Тур	Max	Unit
			25℃	5.75	6	6.25	V
Output Voltage	Vo	8V≤V _i ≤21V, lo=5mA-350mA Po≤ 15W	0-125℃	5.7	6	6.3	٧
Load Regulation	ΔVο	Io=5mA-0.5A	25℃		18	120	mV
		lo=5mA-200mA	25°C		10	60	mV
Line Regulation	ΔVο	8V≤V _i ≤25V, lo=200mA	25℃		5	100	mV
		9V≤V _i ≤25V, lo=200mA	25℃		1.5	50	mV
Quiescent Current	Iq		25℃		4.3	6	mA
Quiescent Current Change	Δlq	9V≤V _i ≤25V, lo=200mA	0-125℃			0.8	mA
Quiescent ourrent onlinge	Δlq	5mA≤I _O ≤350mA	0-125℃			0.5	mA
Output Noise Voltage	V _N	10Hz≤ f ≤100KHz	25℃		45		uV
Ripple Rejection	RR	9V≤V _i ≤19V,f=120Hz,lo=300mA	0-125℃	59	80		dB
Dropout Voltage	Vd	Io=350mA	25℃		2		V
Short Circuit Current	Isc	Vi=11V	25℃		270		mA
Peak Current	lpk		25℃		0.5		Α

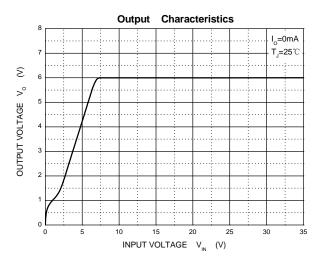
TYPICAL APPLICATION

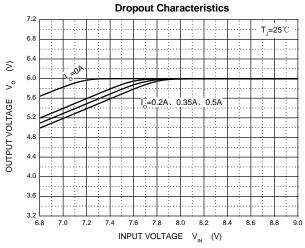


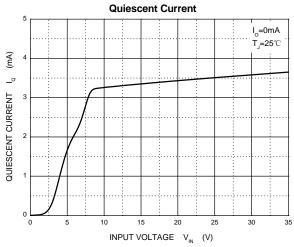


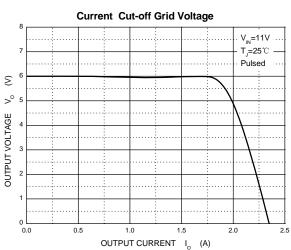


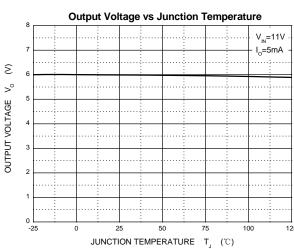


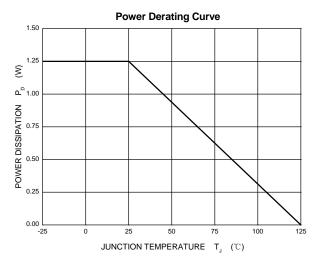






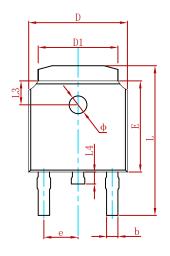


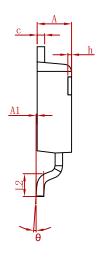


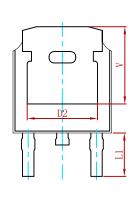




PACKAGE MECHANICAL DATA

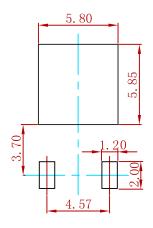






Cumbal	Dimensions In Millimeters		Dimension	s In Inches
Symbol	Min.	Max.	Min.	Max.
Α	2.200	2.400	0.087	0.094
A1	0.000	0.127	0.000	0.005
b	0.635	0.770	0.025	0.030
С	0.460	0.580	0.018	0.023
D	6.500	6.700	0.256	0.264
D1	5.100	5.460	0.201	0.215
D2	4.830 REF.		0.190 REF.	
E	6.000	6.200	0.236	0.244
е	2.186	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	5.25	0 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
78M06-MS	TO-252	2500



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