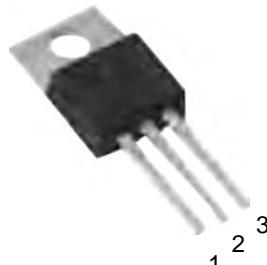


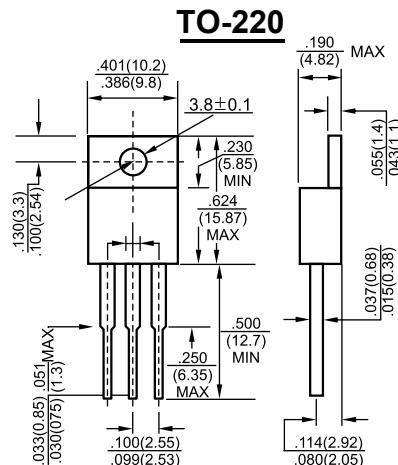


Features

- ◆ Maximum Output current
 I_{OM} : 0.5 A
- ◆ Output voltage
 V_O : 8V
- ◆ Continuous total dissipation
 P_D : 1.5W ($T_a = 25^\circ C$)



1.IN
2.GND
3.OUT



Dimensions in inches and (millimeters)

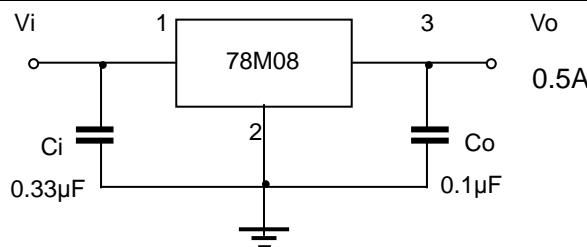
ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

Parameter	Symbol	Value	Unit
Input Voltage	V_I	35	V
Operating Junction Temperature Range	T_{OPR}	0+125	°C
Storage Temperature Range	T_{STG}	-65+150	°C

ELECTRICAL CHARACTERISTICS ($V_i=14V$, $I_o=350mA$, $C_i=0.33\mu F$, $C_o=0.1\mu F$, unless otherwise specified)

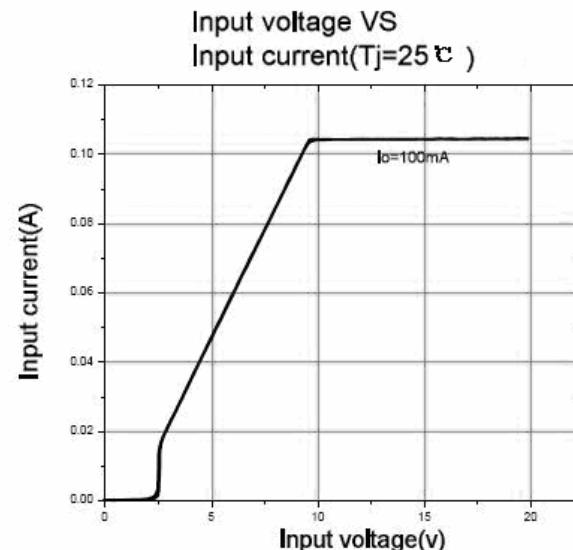
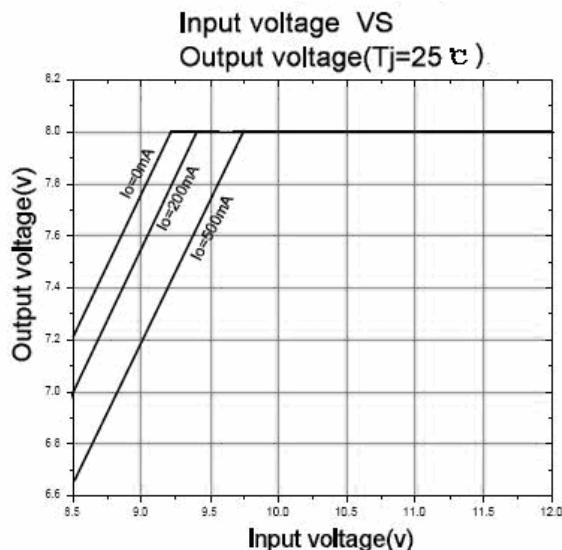
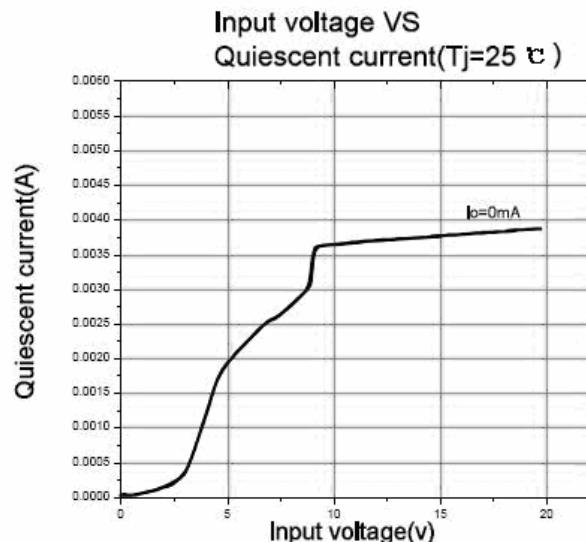
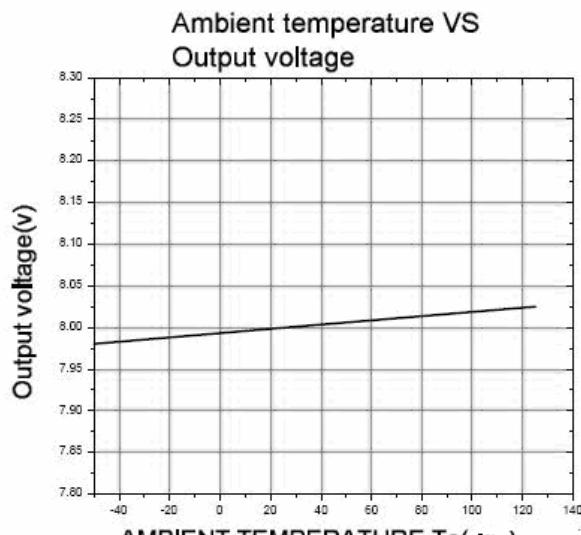
Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Output voltage	V_o	25°C	7.7	8	8.3	V
		10.5≤ V_i ≤23V, $I_o=5mA-350mA$ $P_o\leq 15W$	0-125°C	7.6	8	8.4
Load Regulation	ΔV_o	$I_o=5mA-500mA$	25°C	20	160	mV
		$I_o=5mA-200mA$	25°C	10	80	mV
Line regulation	ΔV_o	10.5V≤ V_i ≤25V, $I_o=200mA$	25°C	6	100	mV
		11V≤ V_i ≤25V, $I_o=200mA$	25°C	2	50	mV
Quiescent Current	I_q		25°C	4.6	6	mA
Quiescent Current Change	ΔI_q	10.5V≤ V_i ≤25V, $I_o=200mA$	0-125°C		0.8	mA
	ΔI_q	5mA≤ I_o ≤350mA	0-125°C		0.5	mA
Output Noise Voltage	V_N	10Hz≤ f ≤100KHz	25°C	52		uV
Ripple Rejection	RR	11.5V≤ V_i ≤21.5V, $f=120Hz$, $I_o=300mA$	0-125°C	56	80	dB
Dropout Voltage	V_d	$I_o=350mA$	25°C	2		V
Short Circuit Current	I_{sc}	$V_i=14V$	25°C	250		mA
Peak Current	I_{pk}		25°C	0.7		A

TYPICAL APPLICATION





Typical Characteristics



Packge	Packing	Box Size L×W×H(mm)	Quatity(pcs/box)	Carton Size L×W×H(mm)	Quatity(pcs/carton)
TO-220	50pcs/Tube	560×150×50	1000	570×290×180	5000