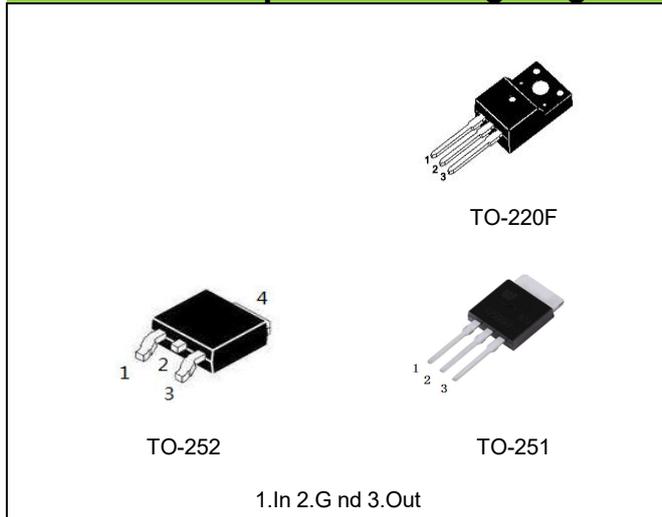




Three-terminal positive voltage regulator



FEATURES

- Maximum output current IOM: 0.5A
- Output voltage VO: 5 V

RoHS

ABSOLUTE MAXIMUM RATINGS

Operating temperature range applies unless otherwise

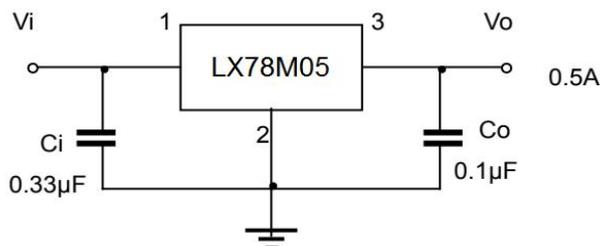
Parameter	Symbol	Value	Unit
Input Voltage	V	35	V
Operating Junction Temperature Range	TOPR	-20~+125	°C
Storage Temperature Range	T	-65~+150	°C

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION

(Vi=10V, Io=350mA, Ci=0.33µF, Co=0.1µF, unless otherwise specified)

Parameter	Symbol	Test conditions	Min.	Typ.	Max.	Unit
Output Voltage	Vo	25°C	4.95	5	5.1	V
Load Regulation	ΔVo	Io=5mA-350mA	25°C	9	100	mV
		Io=200mA-500mA	25°C	4	50	mV
Line Regulation	ΔVo	7.0V≤Vi≤25V, Io=200mA	25°C	4	100	mV
		8V≤Vi≤25V, Io=200mA	25°C	2	50	mV
Quiescent Current	Iq	25°C			6	mA
Quiescent Current Change	ΔIq	8V≤Vi≤25V, Io=200mA	0~125°C	0.3	0.8	mA
		5mA≤Io≤350mA	0~125°C	0.03	0.5	mA
Output Noise Voltage	VN	10Hz≤f≤100KHz	25°C	40	-	uV
Ripple Rejection	RR	8V≤Vi≤18V, f=120Hz	25°C	62	73	dB
Dropout Voltage	VD	Io=350mA	25°C	2	-	V
Short Circuit Current	ISC	Vi=35V	25°C	200		mA

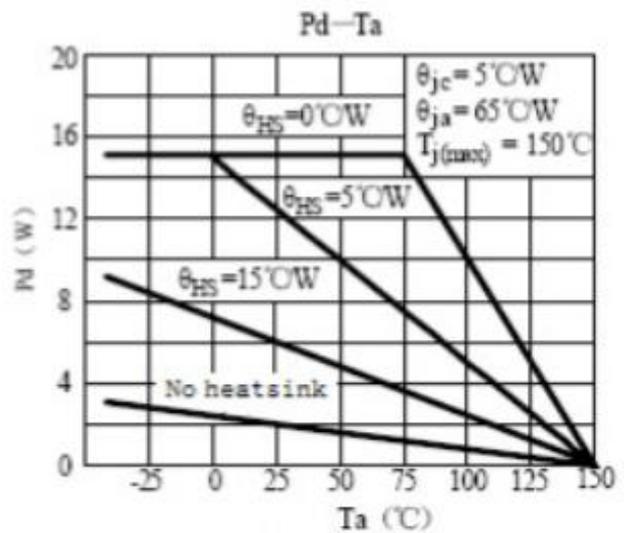
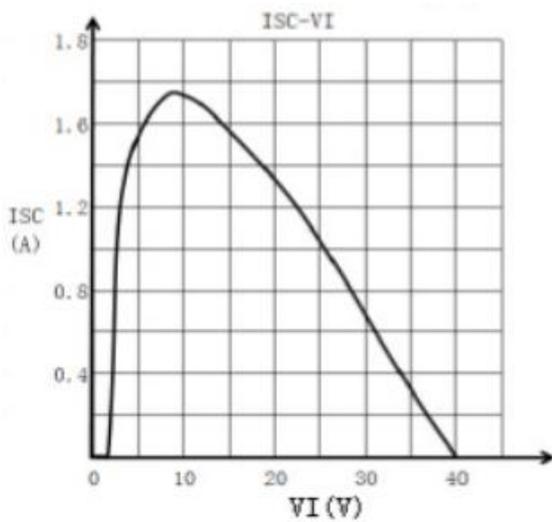
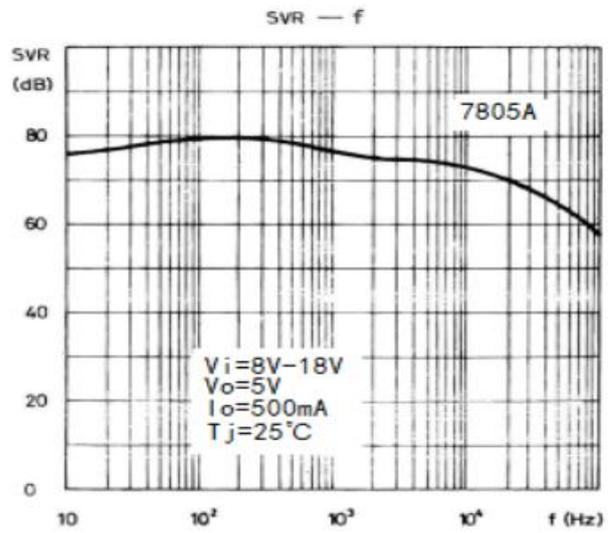
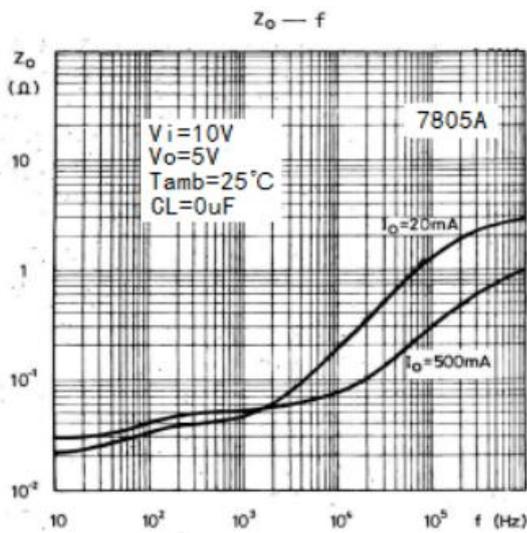
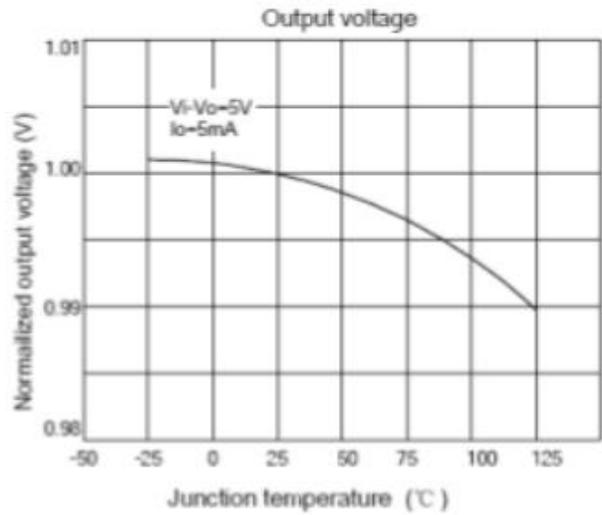
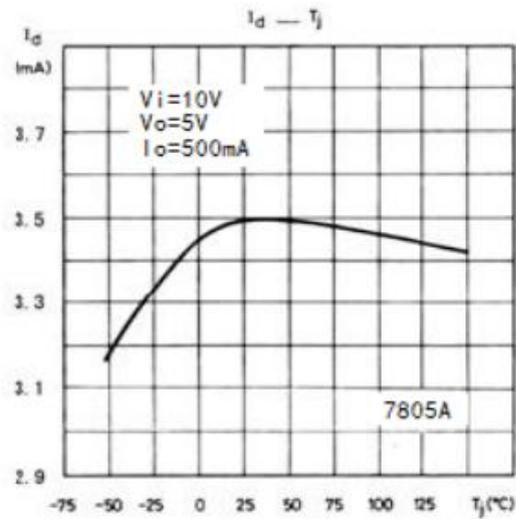
TYPICAL APPLICATION



Note: Bypass capacitors are recommended for optimum stability and transient response and should be located as close as possible



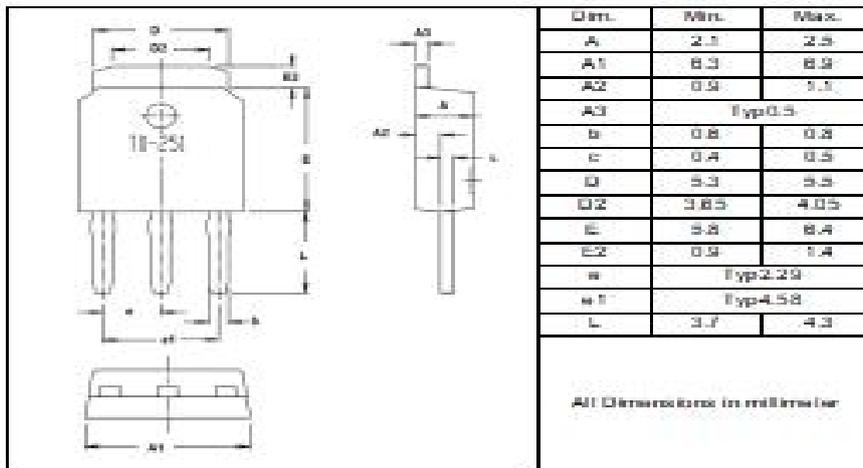
RATINGS AND CHARACTERISTIC CURVES



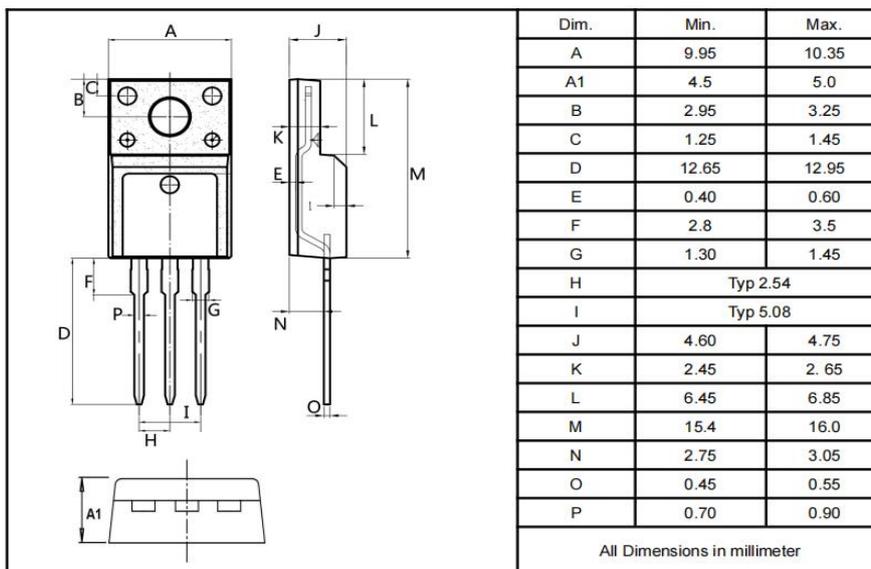


Package Outline Dimensions millimeters

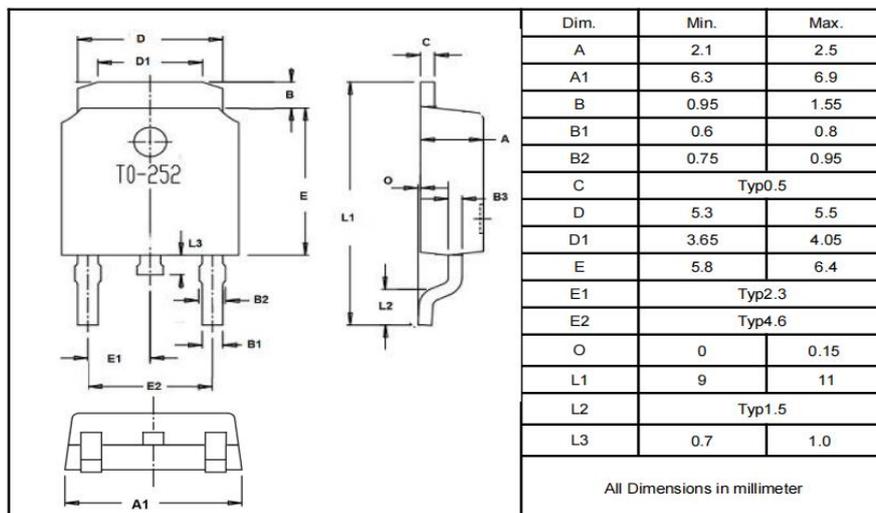
TO-251



TO-220F

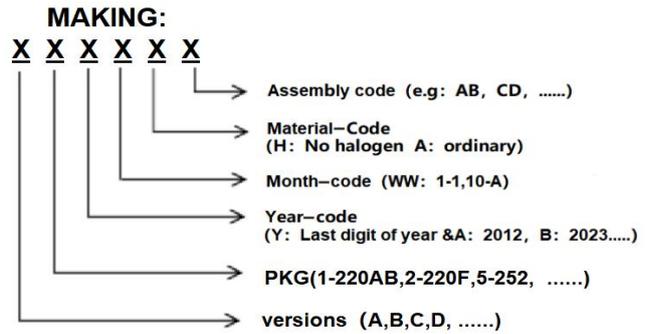
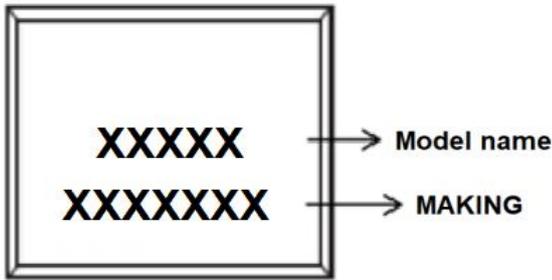


TO-252





Marking on the body



packing instruction

PKG	最小包装	内盒	外箱
TO-220F			
	50pcs/管	1000pcs/盒	5000pcs/箱
TO-252			
	2500pcs/盘	5000pcs/盒	25000pcs/箱
TO-251			
	80pcs/管	4000pcs/盒	24000pcs/箱

Notice

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