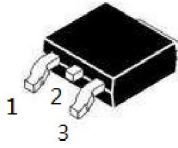


Three-terminal positive voltage regulator


TO-252

FEATURES

- Output current up to 1.0A
- Thermal overload protection
- Short circuit protection
- Output transistor SOA protection

RoHS
ABSOLUTE MAXIMUM RATINGS

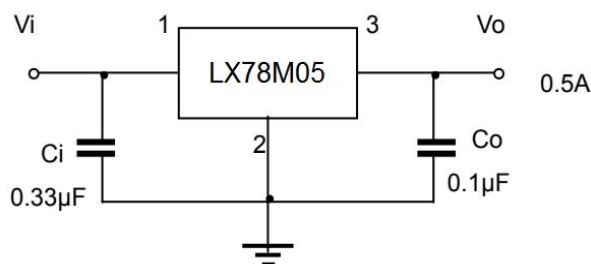
Operating temperature range applies unless otherwise

Parameter	Symbol	Value	Unit
Input Voltage	V	35	V
Operating Junction Temperature Range	TOPR	-40~+125	°C
Storage Temperature Range	Tstg	-65~+150	°C
Power Dissipation-1 (No Heatsink)	PD	1.25	W

ELECTRICAL CHARACTERISTICS AT SPECIFIED VIRTUAL JUNCTION

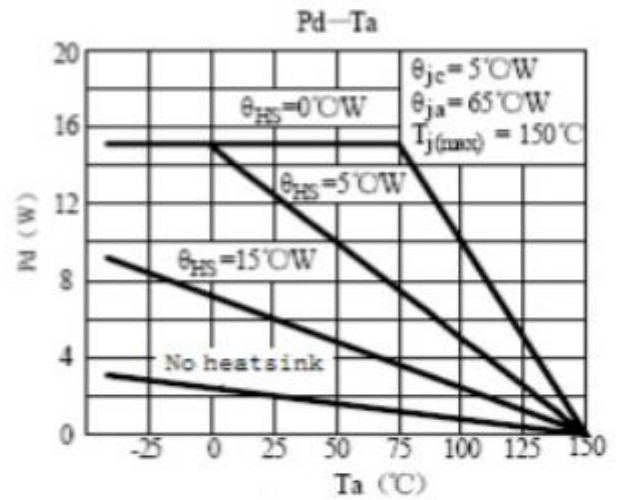
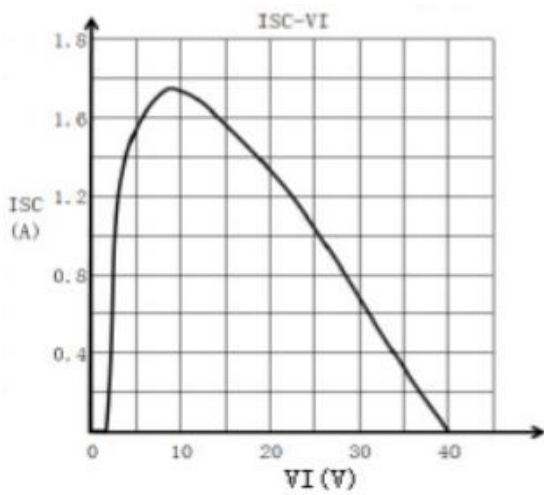
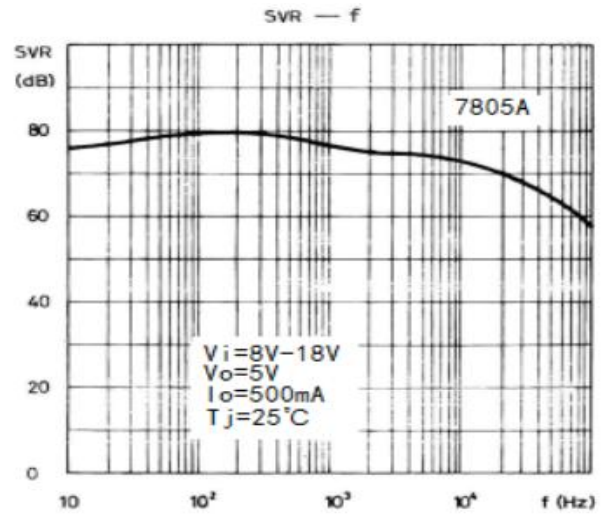
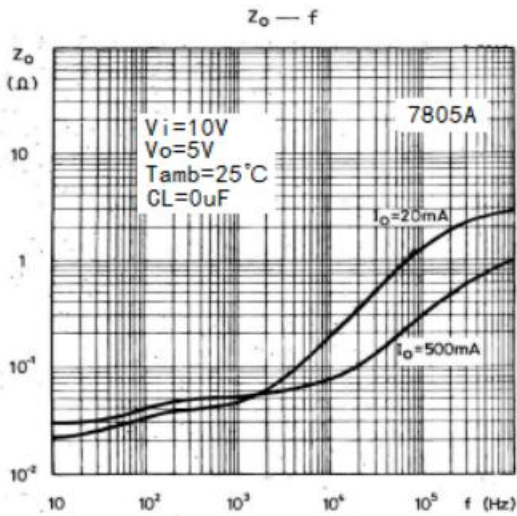
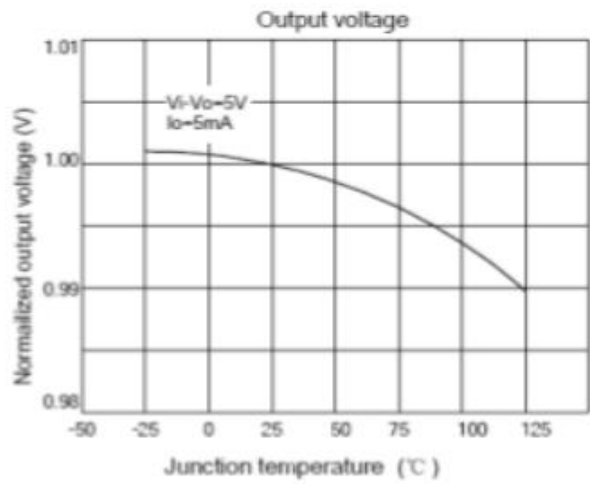
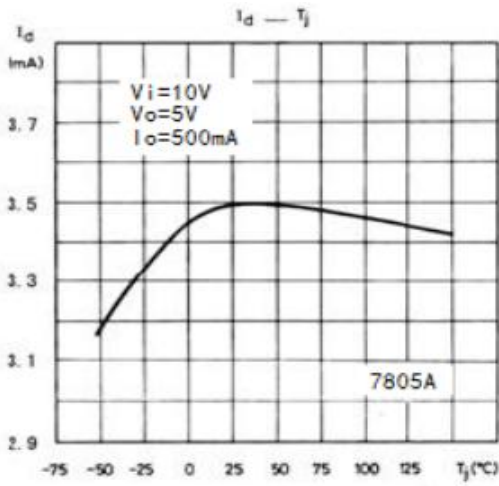
(Vi=10V, Io=500mA, Ci=0.33μF, Co=0.1μF, unless otherwise specified)

Parameter	Symbol	Test conditions	Min.	Typ.	Max.	Unit
Output Voltage	Vo	25°C	4.8	5	5.2	V
		7.5V≤Vi≤20V, Io=5mA-1A Po≤ 15W	0~125°C	4.75	5	5.25
Load Regulation	ΔVo	Io=5mA-1A	25°C	9	100	mV
		Io=250mA-750mA	25°C	4	50	mV
Line Regulation	ΔVo	7.5V≤Vi≤20V, Io=500mA	25°C	4	100	mV
		8V≤Vi≤12V, Io=500mA	25°C	2	50	mV
Quiescent Current	Iq	25°C		4.2	8	mA
Quiescent Current Change	ΔIq	8V≤Vi≤25V, Io=500mA	0~125°C	0.3	0.8	mA
		5mA≤Io≤1A	0~125°C	0.03	0.5	mA
Output Noise Voltage	Vn	10Hz≤f≤100KHz	25°C	42		uV/Vo
Ripple Rejection	RR	8V≤Vi≤18V, f=120Hz, Io=500mA	0~125°C	62	73	dB
Dropout Voltage	Vo	Io=1A	25°C	2		V
Output resistance	Ro	f=1kHz	25°C	15		mΩ
Short Circuit Current	ISC	Vi=35V	25°C	200		mA

TYPICAL APPLICATION


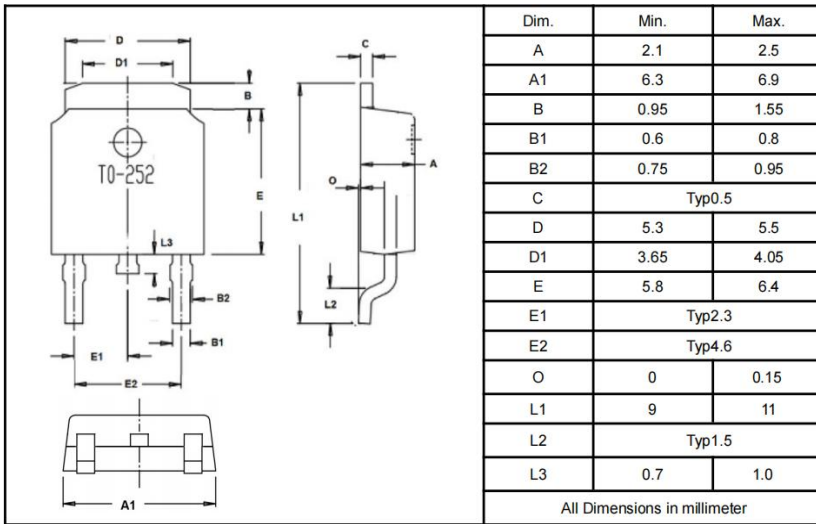
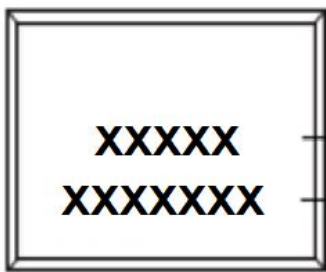
Note: Bypass capacitors are recommended for optimum stability and transient response and should be located as close as possible to

RATINGS AND CHARACTERISTIC CURVES



Package Outline Dimensions millimeters

TO-252


Marking on the body


Model name

MAKING

MAKING:
X X X X X X

Assembly code (e.g: AB, CD,)

 Material-Code
 (H: No halogen A: ordinary)

Month-code (WW: 1-1,10-A)

 Year-code
 (Y: Last digit of year &A: 2012, B: 2013.....)

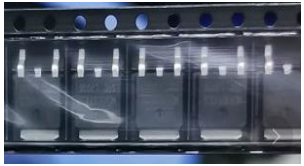


PKG(1-220AB,2-220F,5-252,)

versions (A,B,C,D,)

Ordering information

Part Number	Package	Base Quantity	Delivery mode
78M05	TO-252	2500 pcs / reel	5000pcs/box 25000pcs/carton

packing instruction

PKG	最小包装	内盒	外箱
TO-252			
	2500pcs/盘	5000pcs/盒	25000pcs/箱

Notice

All product,product specifications and data are subject to change without notice to improve.The right to explain is owned by LINGXUN electronics company.

Confirm that operation temperature is within the specified range described in the product specification. Avoid applying poer exceeding normal ratedpoer; exceeding the power rating under steady-state loading condition may negatively affect product performance and reliability.

LINGXUN electronics shall not be in any way responsible or liable for failure induced under deviant condition from what is defined in this documentpoer; exceeding the power rating under steady-state loading condition may negatively affect product performance and reliability.