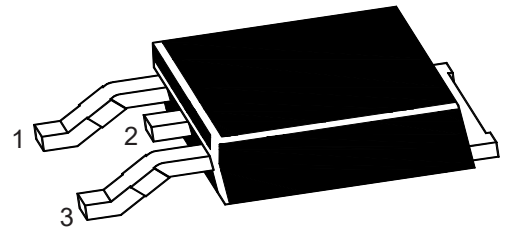


PJ78M12TE

3-Terminal Voltage Regulator

TO-252

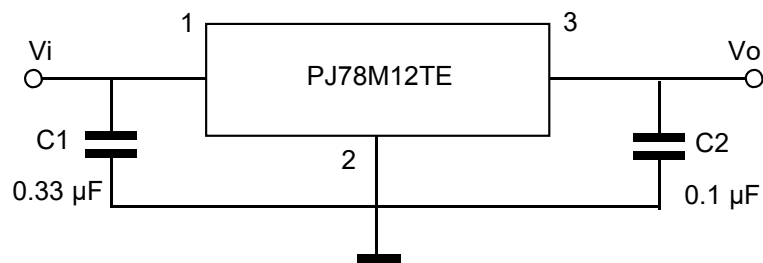


1. IN 2. GND 3. OUT

Maximum Ratings

Ratings at $T_A = 25^\circ\text{C}$ ambient temperature unless otherwise specified.

Parameter	Symbols	Value	Units
Input Voltage	V_I	35	V
Output Current	I_o	0.5	A
Power Dissipation	P_D	0.8	W
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55~150	$^\circ\text{C}$





PJ78M12TE

3-Terminal Voltage Regulator

Electrical Characteristics

Ratings at $T_J = 25^\circ\text{C}$, $V_I = 10\text{V}$, $I_O = 40\text{mA}$, $C_i = 0.33\mu\text{F}$, $C_o = 0.1\mu\text{F}$, unless otherwise specified.

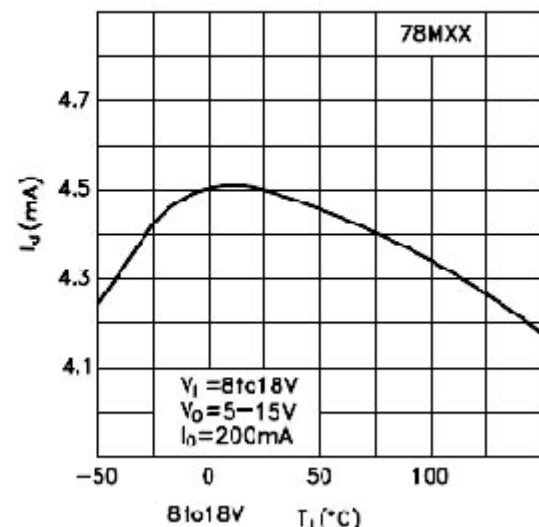
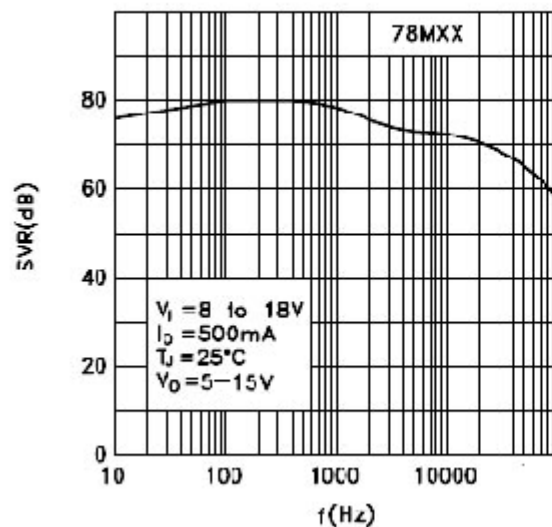
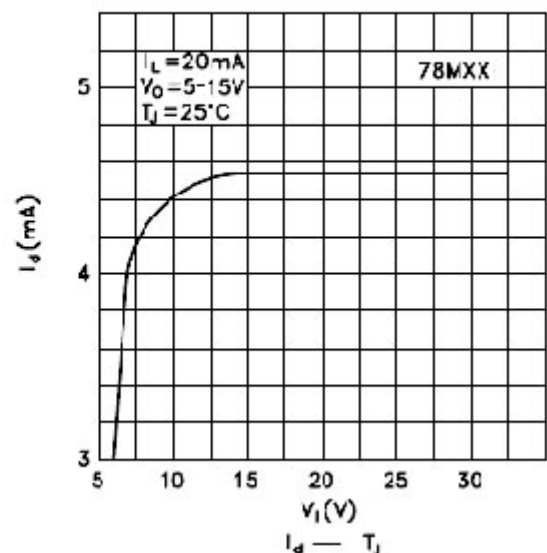
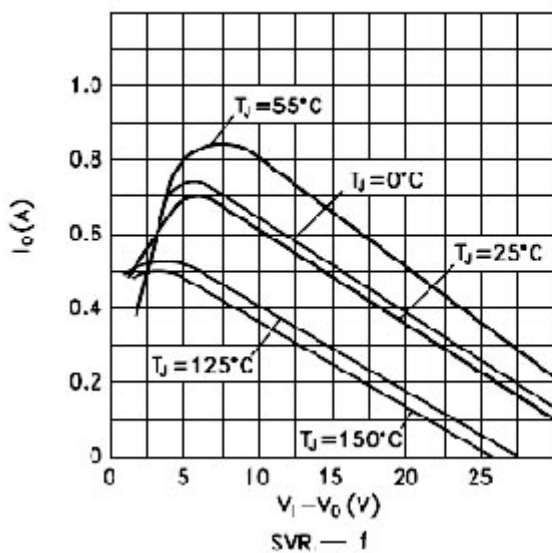
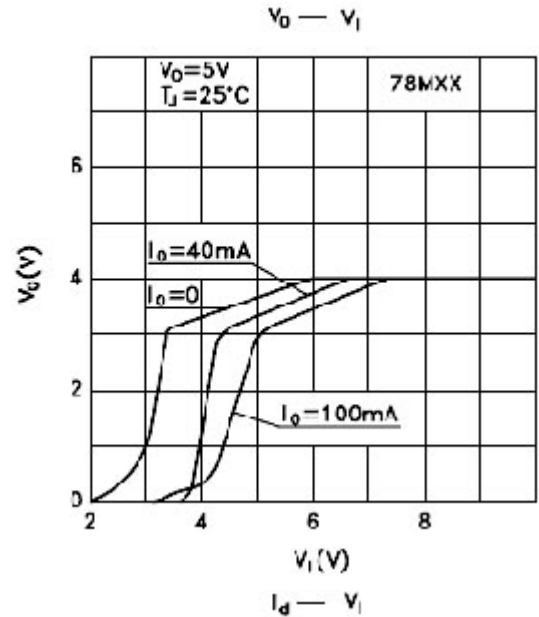
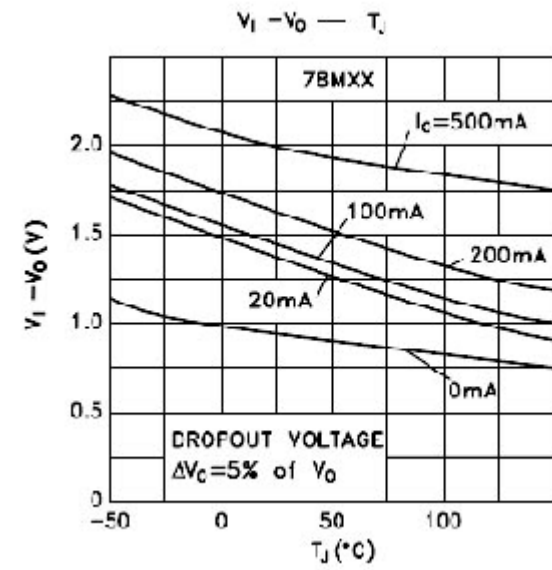
Parameter	Symbols	Test Conditions	Min	Typ	Max	Unit
Output Voltage	V_O	$T_J = 25^\circ\text{C}$	11.5	12	12.5	V
		$5\text{mA} \leq I_O \leq 350\text{mA}$ $V_I = 14.5\text{V to } 27\text{V}$	11.4	12	12.6	
Line Regulation	ΔV_O	$V_O = 14.5\text{ V to } 30\text{ V}$			100	mV
		$V_I = 16\text{ V to } 30\text{ V}$			50	mV
Load Regulation	ΔV_O	$I_O = 5\text{ mA to } 500\text{ mA}$			240	mV
		$I_O = 5\text{ mA to } 200\text{ mA}$			120	mV
Ripple Rejection	RR	$V_I = 15\sim 25\text{ V}$, $f = 120\text{Hz}$	55	80		dB
Output Noise Voltage	V_N	$f = 10\text{Hz} \sim 100\text{Hz}$, $T_J = 25^\circ\text{C}$		75		μV
Dropout Voltage	V_D	$I_O = 1\text{A}$		2		V
Quiescent Current	I_Q	$T_J = 25^\circ\text{C}$			6	mA
Quiescent Current Change	ΔI_Q	$I_O = 5\text{ mA to } 350\text{ mA}$, $T_J = 25^\circ\text{C}$			0.5	mA
		$V_I = 14.5\text{ V to } 30\text{ V}$, $T_J = 25^\circ\text{C}$			0.8	



PJ78M12TE

3-Terminal Voltage Regulator

Typical Characteristic Curves



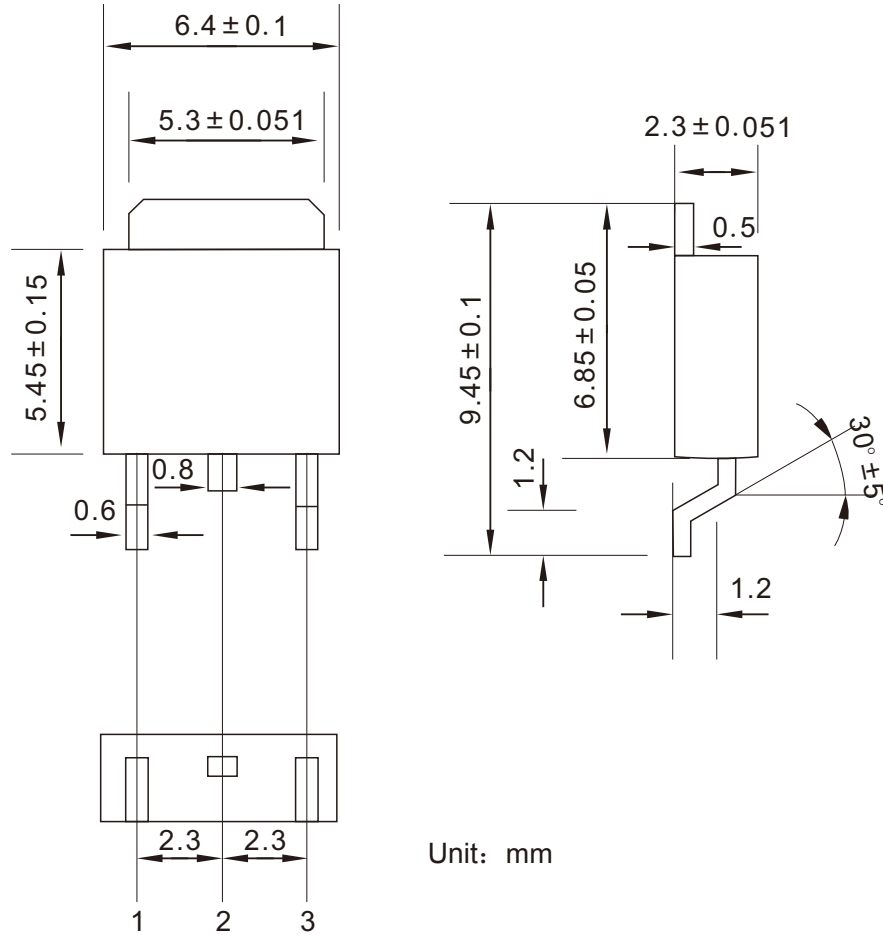


PJ78M12TE

3-Terminal Voltage Regulator

Package Outline

TO-252
Dimensions in mm



Unit: mm

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