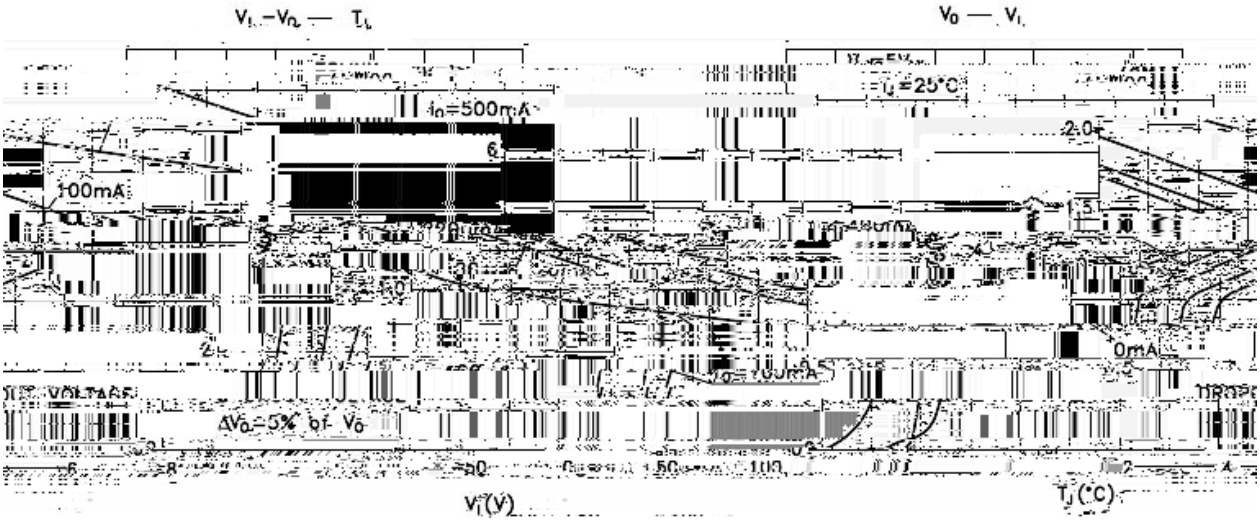
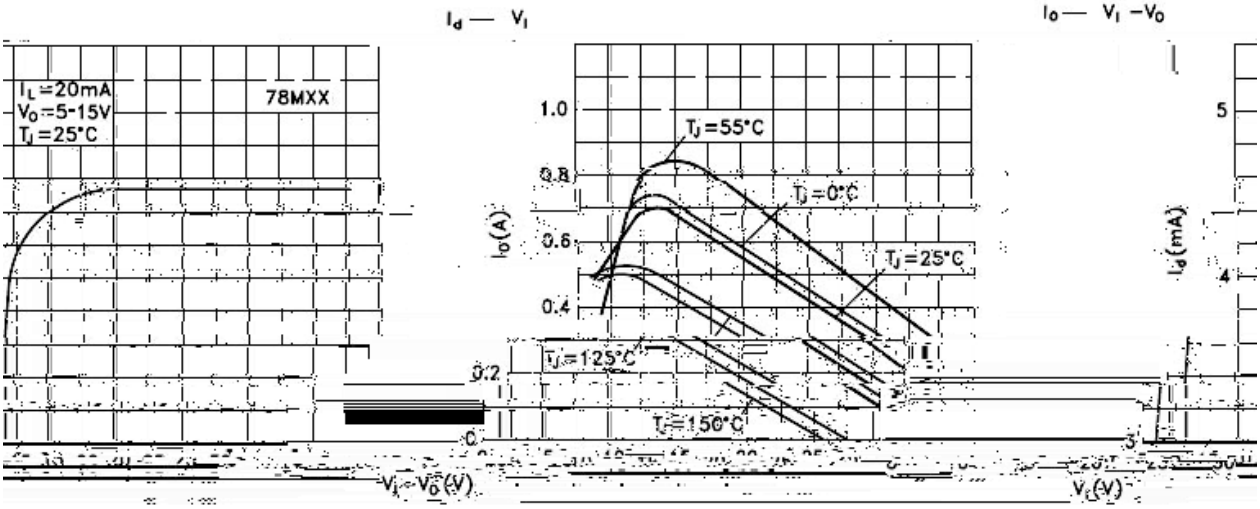
TO-252 ḾḾЬэяэ̃Ǫн Voltage Regulator in a TO-252 Plastic Package.

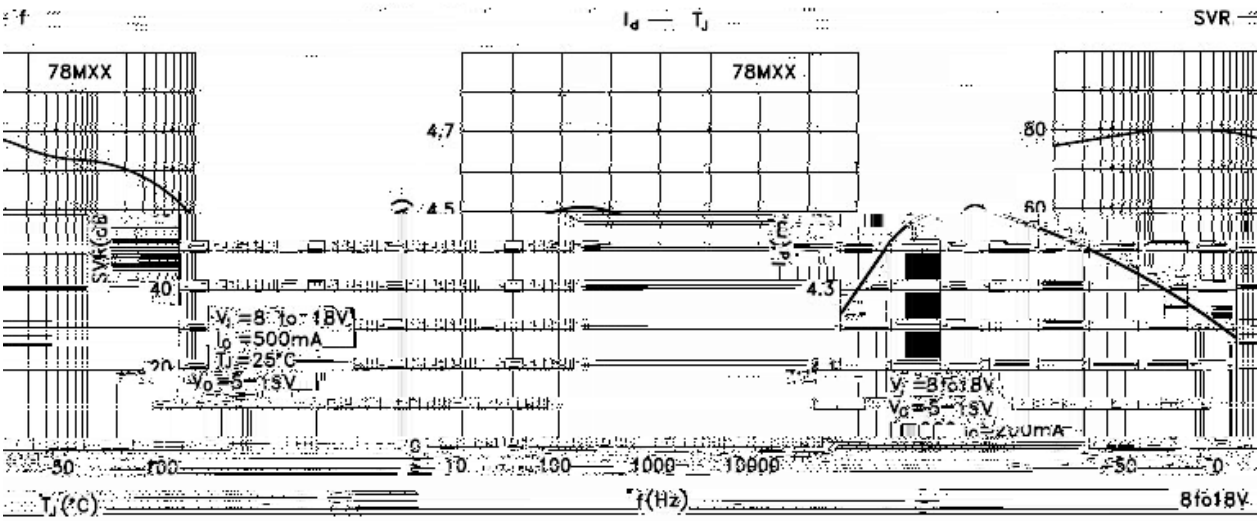
v ¨Ω Parameter	ϒ N Symbol	¨Ω Ö Rating	D Ч Unit
Input voltage	V_I	35	V
Thernal Resistance Junction-ambient	$R_{\theta JA}$	100	Ņ/W
Thernal Resistance Junction-case	$R_{\theta JC}$	8.0	Ņ/W
Operating Junction Temperature Range	T_{OPR}	0 · 125	Ņ
Storage temperature range	T_{stg}	-65 · 150	Ņ

v ¨Ω Parameter	ϒ N Symbol	╨ :ϒ ţ Test Conditions	ω ņ Ö Min	Ɛ ʒ Ö Typ	ω ᶻ Ö Max	D Ч Unit
Output voltage	V_O	T_j=25	7.8	8	8.2	V
		V_i=10.5V-25V Io=5mA-350mA	7.7	8	8.3	V
Load Regulation	₶Vo	T_j=25 Io=5mA-500mA			100	mV
		T_j=25 Io=5mA-200mA			50	mV
Line regulation	₶Vo	T_j=25 V_i=10.5V-25V			100	mV
		T_j=25 V_i=11V-25V			50	mV
Output Noise Voltage	eN	T_j=25Ņ B=10Hz-100KHz		52		μV
Supply Voltage Rejection	SVR	f=120Hz V_i=11.5V-21.5V	56			dB
Short Circuit Current	Isc	V_i=35V T_j=25Ņ		250		mA
Quiescent Current	Id	T_j=25Ņ			6	mA
Quiescent Current Change	₶Id	V_i=8V-25V			0.8	mA
		Io=5mA-350mA			0.5	mA
Output Voltage Drift	₶Vo/₶T	Io=5mA		0.5		mV/Ņ

/ Electrical Characteristic Curve







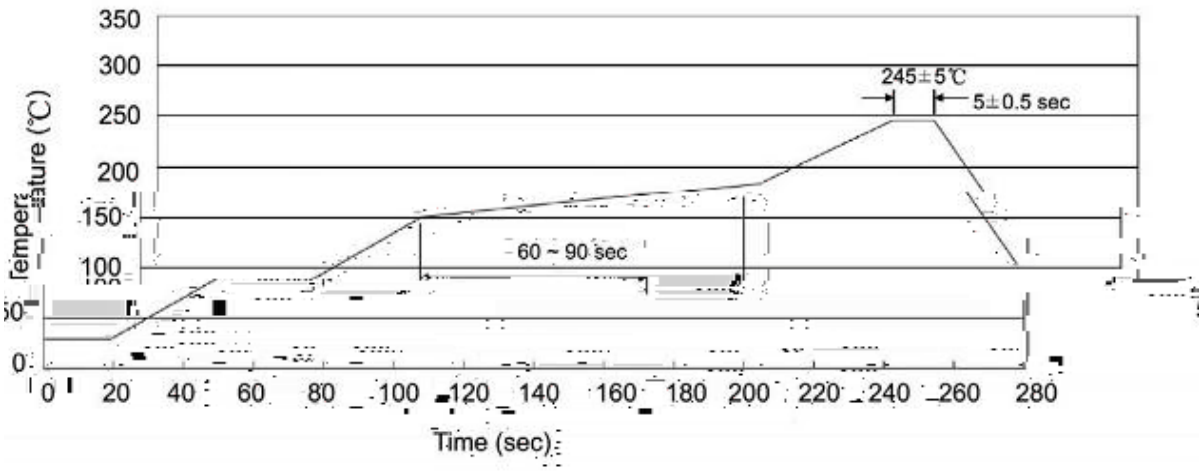
/ Package Dimensions



0.90	D		E3	
0.10	D1	5.10	5.50	K	0.00

TO-252

( ) / Temperature Profile for IR Reflow Soldering(Pb-Free)



ب ˝ χ

1 Ĺ ♬ □ ỷ 150 Ḱ 180 ł ı `H ڑ 60 Ḱ 90sec;

2 Š Ë □ ỷ 245 ° 5 ł ı `H ڑ `Y ﾊ ㎞ 5 ° 0.5sec;

3 ì ˙ ｲ ˛ ɔ ﻉ ỷ ㎞ 2 Ḱ 10 ł /sec.

Note:

1.Preheating:150~180 ł , Time:60~90sec.

2.Peak Temp.:245 ° 5 ł , Duration:5 ° 0.5sec.

3. Cooling Speed: 2~10 ł /sec.

/ Resistance to Soldering Heat Test Conditions

□ ỷ χ 260 ° 5 ł `H ڑ χ 10 ° 1 sec. Temp:260±5 Time:10±1 sec

/ Packaging SPEC.

ɔ ` ｙ Ł / REEL

Package Type	Units					Dimension		(unit mm³)
	Units/Reel /	Reels/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Reel	Inner Box	Outer Box
TO-252	2,500	2	5,000	6	30,000	13 ρ ×16	360×360×50	380×335×366

˛ ｱ ｙ Ł / TUBE

Package Type	Units					Dimension		(unit mm3)
	Units/Tube /	Tubes/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Tube	Inner Box	Outer Box