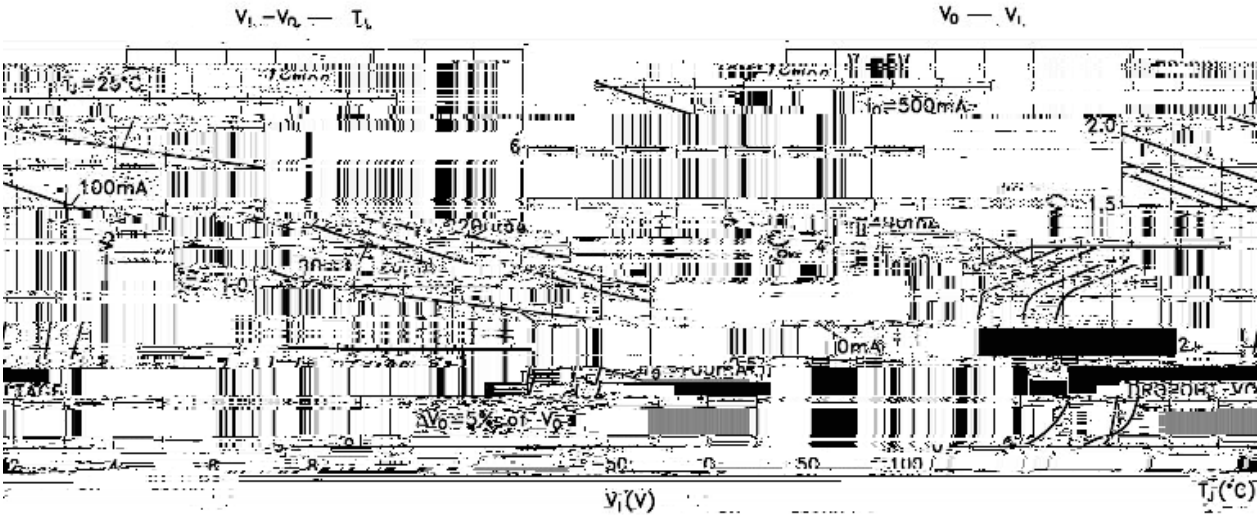
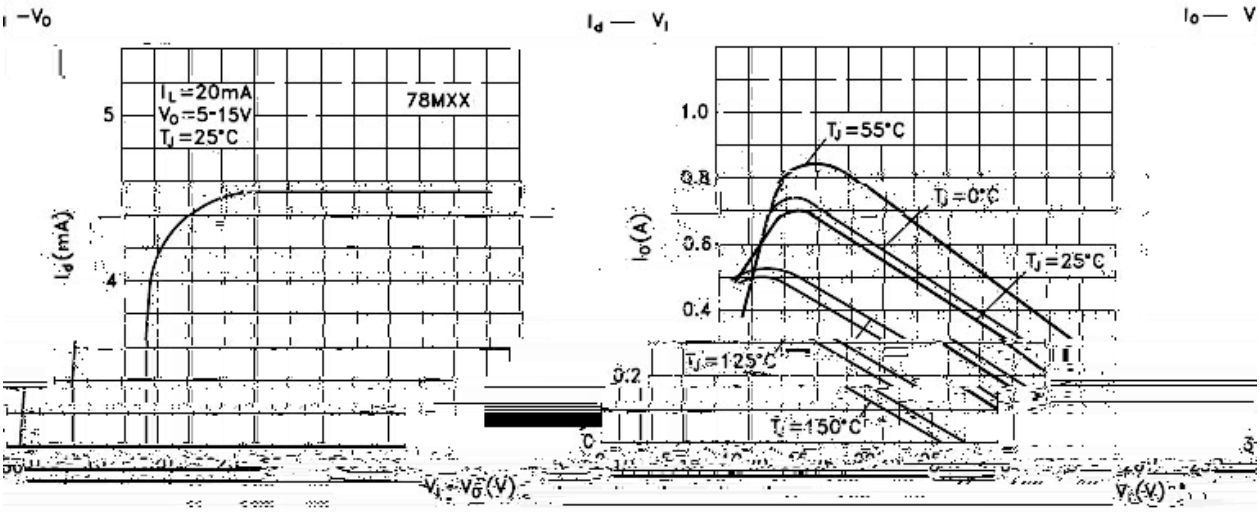
TO-252 ḾḾЬ ɔ я ɜ ʖǫ ʜ Voltage Regulator in a TO-252 Plastic Package.

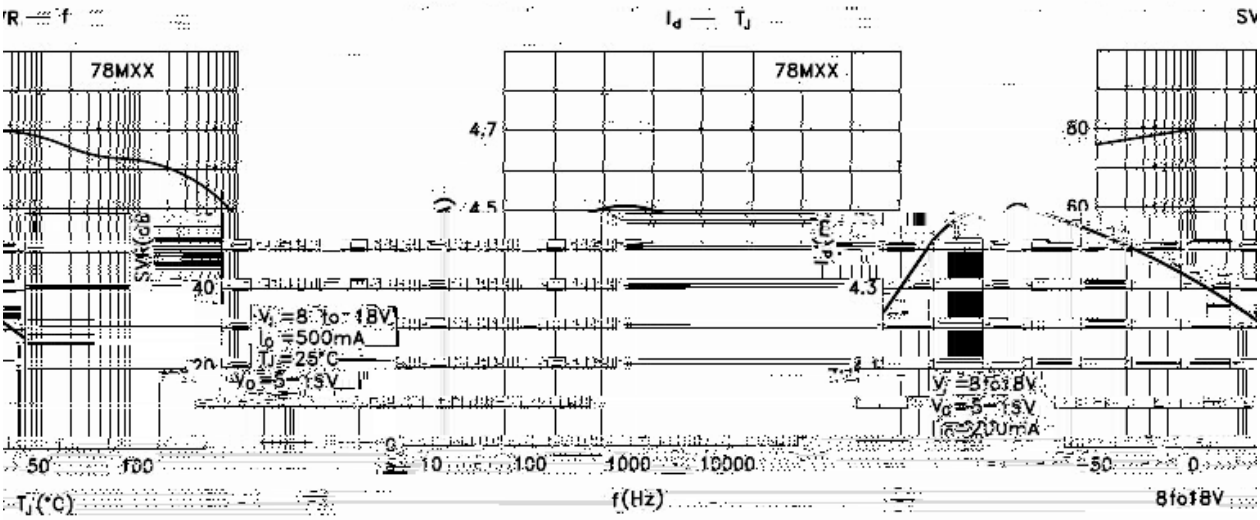
v ¨Ω Parameter	¬ N Symbol	¨Ω Ö Rating	D Ч Unit
Input voltage	V_I	35	V
Thernal Resistance Junction-ambient	R_{JA}	100	Ņ/W
Thernal Resistance Junction-case	R_{JC}	8.0	Ņ/W
Operating Junction Temperature Range	T_{OPR}	0 ~ 125	Ņ
Storage temperature range	T_{stg}	-65 ~ 150	Ņ

v ¨Ω Parameter	¬ N Symbol	╨ :¦ ţ Test Conditions	ω ņ Ö Min	Ɛ ʒ Ö Typ	ω ² 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		V
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







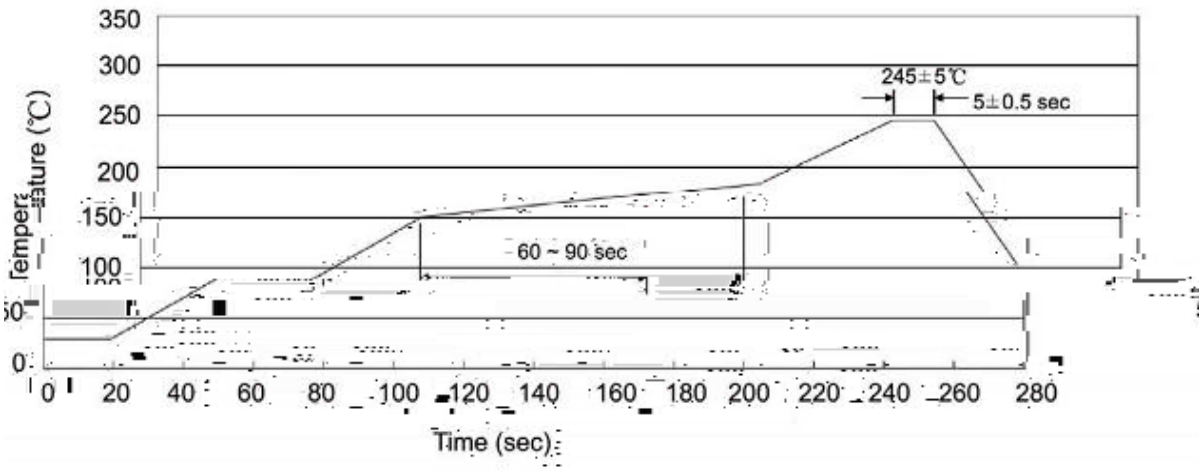
/ Package Dimensions



0.00	0.10		
D1	5.10	5.50	K

TO-252

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



ب ˝ χ

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

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

3 ì ˙ ﾘ ˛ 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 ژ χ 10 ° 1 sec.	Temp:260±5	Time:10±1 sec

/ Packaging SPEC.

ɔ ` ﾔ Ł / REEL

Package Type	Units					Dimension		(unit mm³)
						ρ		

˛ ｱ ﾔ Ł / TUBE

Package Type	Units	Dimension	(unit mm3)