

78M08
Rev.G Dec.-2018

TO-252

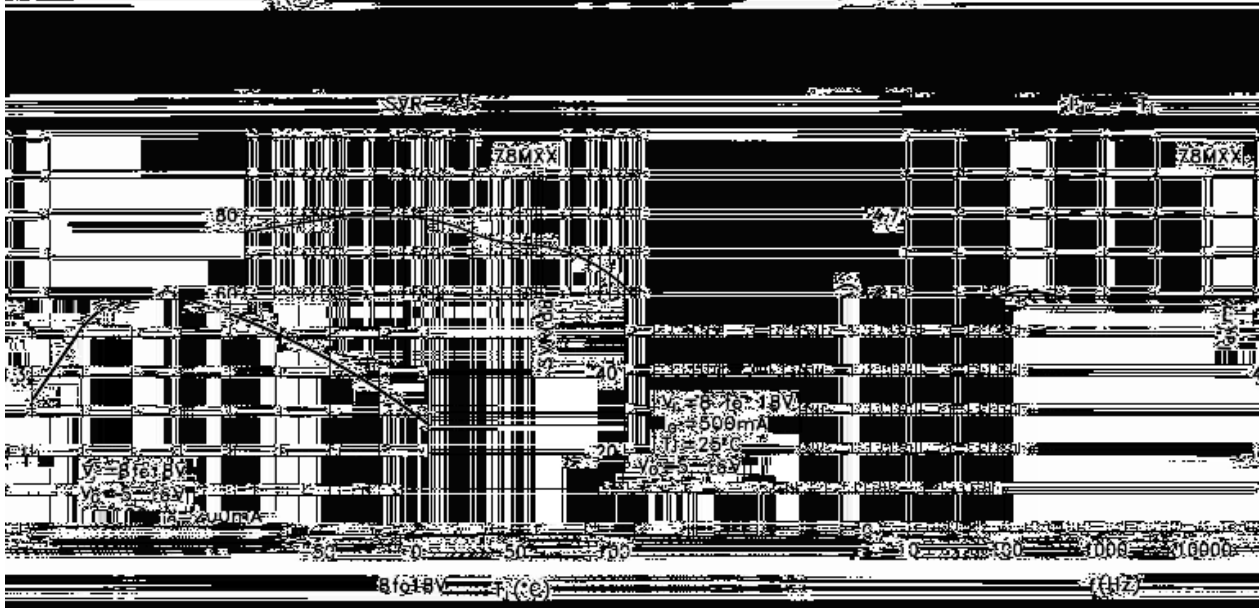
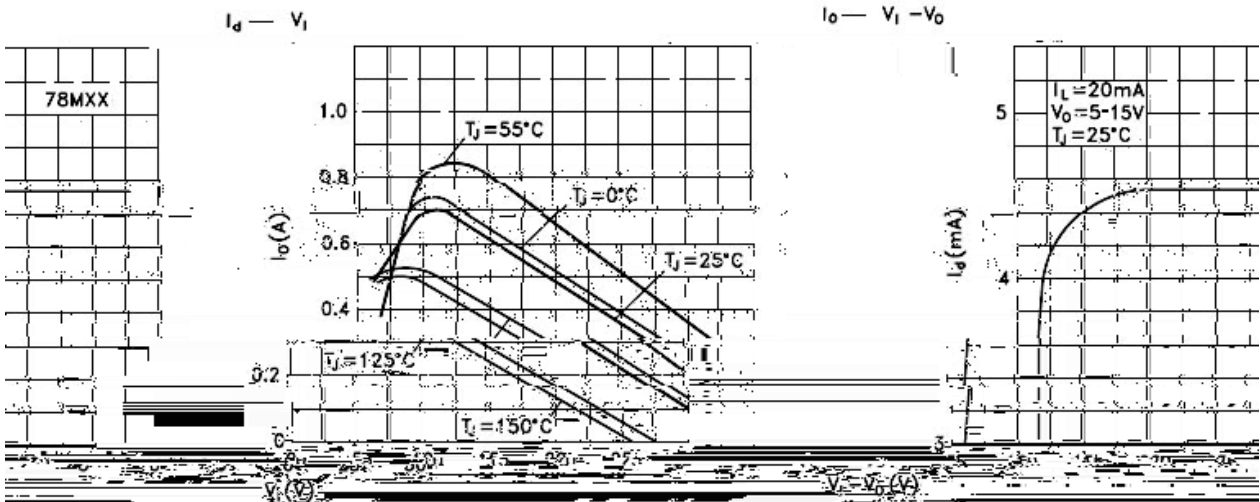
Voltage Regulator in a TO-252 Plastic Package.

Parameter	Symbol	Rating	Unit
Input voltage	V_i	35	V
Thermal Resistance Junction-ambient	R_{JA}	100	/W
Thermal Resistance Junction-case	R_{JC}	8.0	/W
Operating Junction Temperature Range	T_{OPR}	0 125	
Storage temperature range	T_{stg}	-65 150	

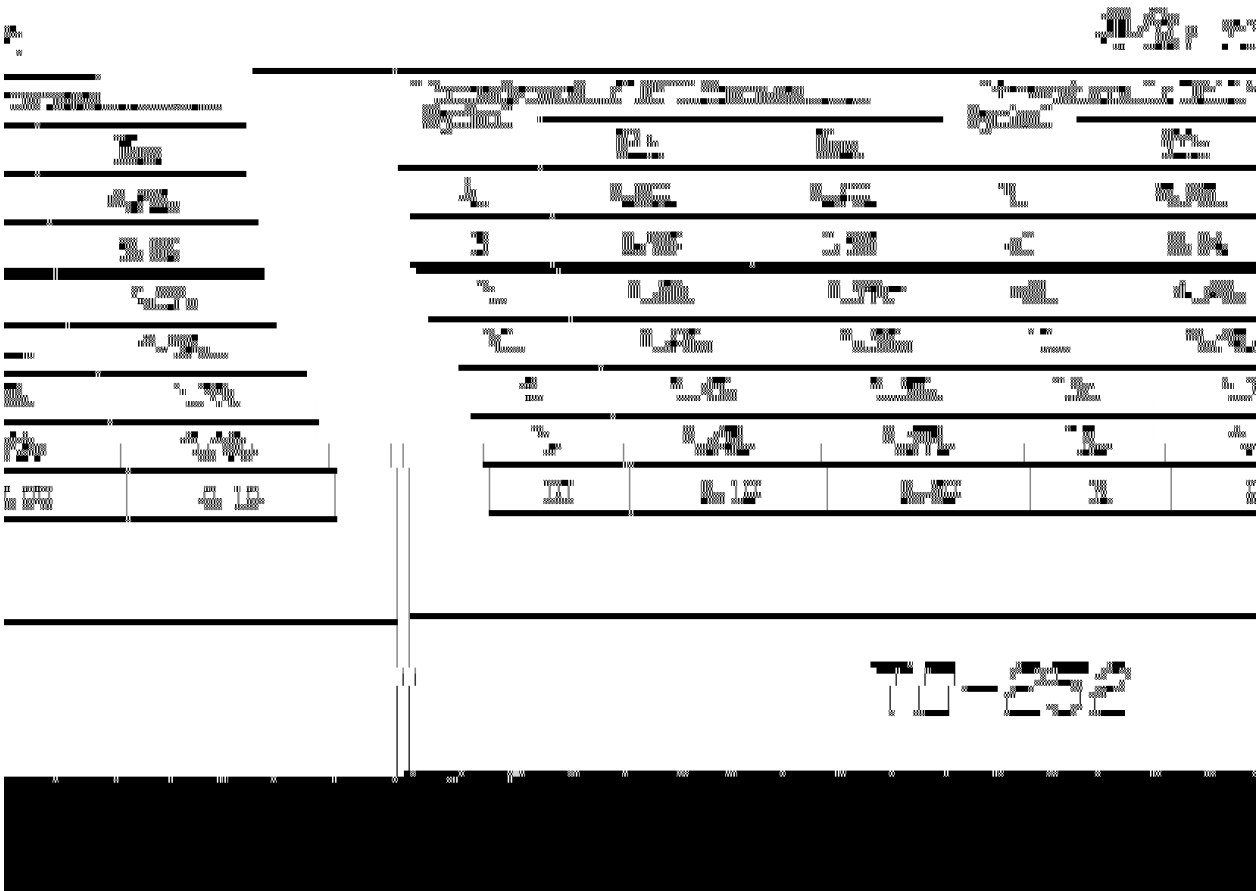
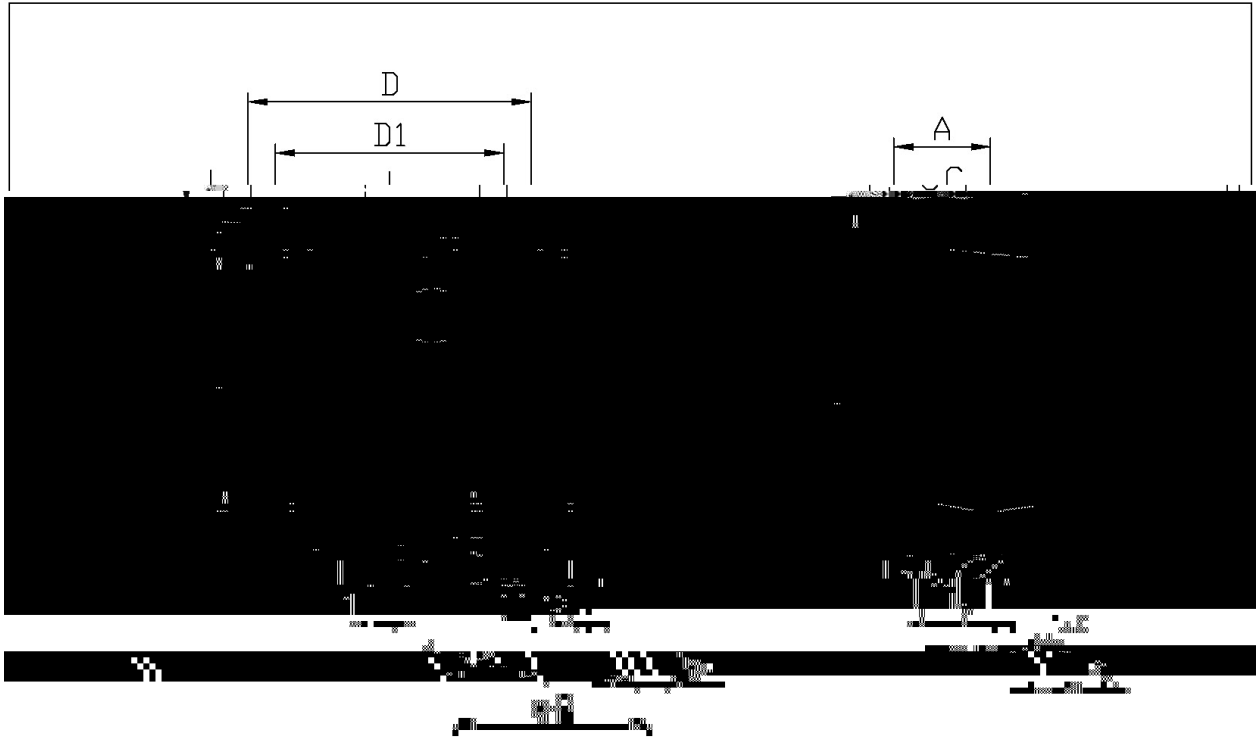
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Output voltage	V_o	$T_j=25$	7.8	8	8.2	V
		$V_i=10.5V-25V$ $I_o=5mA-350mA$	7.7	8	8.3	V
Load Regulation	V_o	$T_j=25$ $I_o=5mA-500mA$			100	mV
		$T_j=25$ $I_o=5mA-200mA$			50	mV
Line regulation	V_o	$T_j=25$ $V_i=10.5V-25V$			100	mV
		$T_j=25$ $V_i=11V-25V$			50	mV
Output Noise Voltage	eN	$T_j=25$ B=10Hz-100KHz		52		μV
Supply Voltage Rejection	SVR	f=120Hz $V_i=11.5V-21.5V$	56			dB
Short Circuit Current	Isc	$V_i=35V$ $T_j=25$		250		mA
Quiescent Current	I _d	$T_j=25$			6	mA
Quiescent Current Change	I _d	$V_i=8V-25V$			0.8	mA
		$I_o=5mA-350mA$			0.5	mA
Output Voltage Drift	V_o/ T	$I_o=5mA$		0.5		mV/

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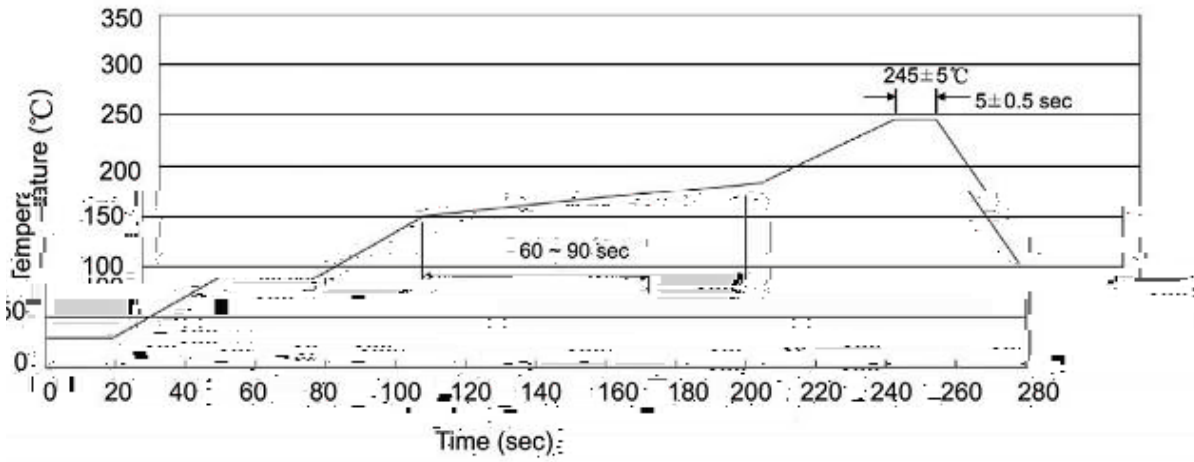
/ Electrical Characteristic Curve



/ Package Dimensions



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



Note:

- | | | | | | |
|---|--------|-----|------------|----------|---|
| 1 | 150 | 180 | 60 | 90sec; | 1.Preheating:150~180 , Time:60~90sec. |
| 2 | 245..5 | | 5..0.5sec; | | 2.Peak Temp.:245..5 , Duration:5..0.5sec. |
| 3 | | | 2 | 10 /sec. | 3. Cooling Speed: 2~10 /sec. |

/ Resistance to Soldering Heat Test Conditions

260..5 10..1 sec. Temp:260±5 Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type	Units					Dimension (unit mm ³)		

/ TUBE

Package Type	Units	Dimension (unit mm ³)