/ Descriptions

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

/ Features

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3-Terminal regulators ,output current up to 0.5A, internal thermal overload protection and short-circuit limiting, HF Product.

/ Applications

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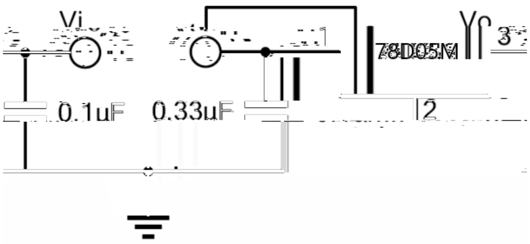
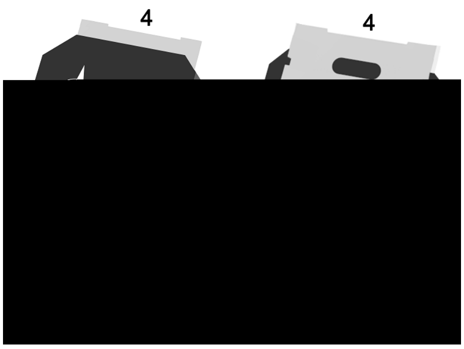
Voltage Regulator.

/ / Equivalent Circuit or Application Circuit



/ Pinning



PIN1 χ IN PIN 2 4 χ GND PIN 3 χ OUT

/ Marking

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See Marking Instructions.

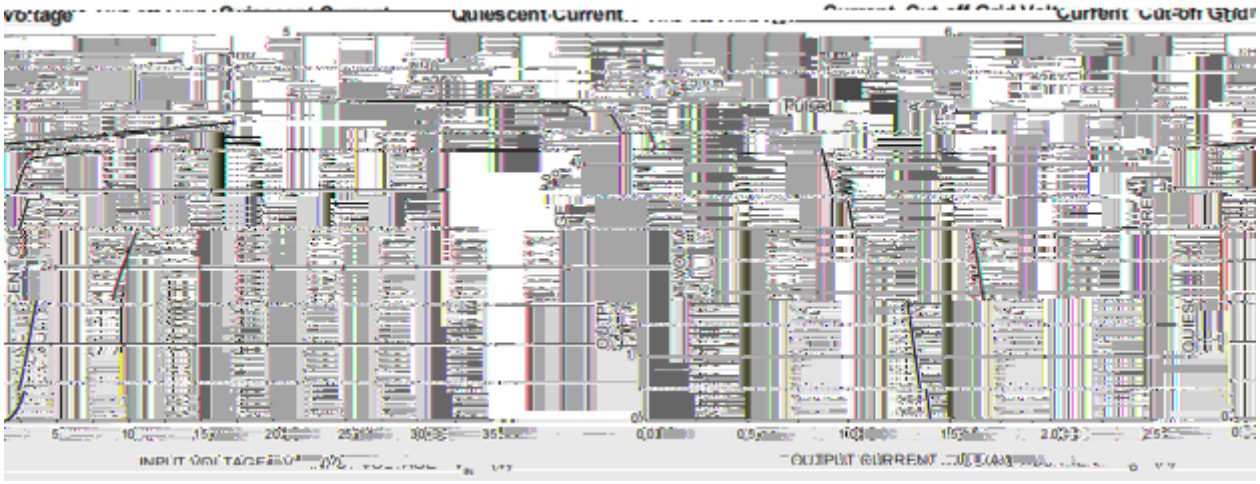
/ Absolute Maximum Ratings(Ta=25)

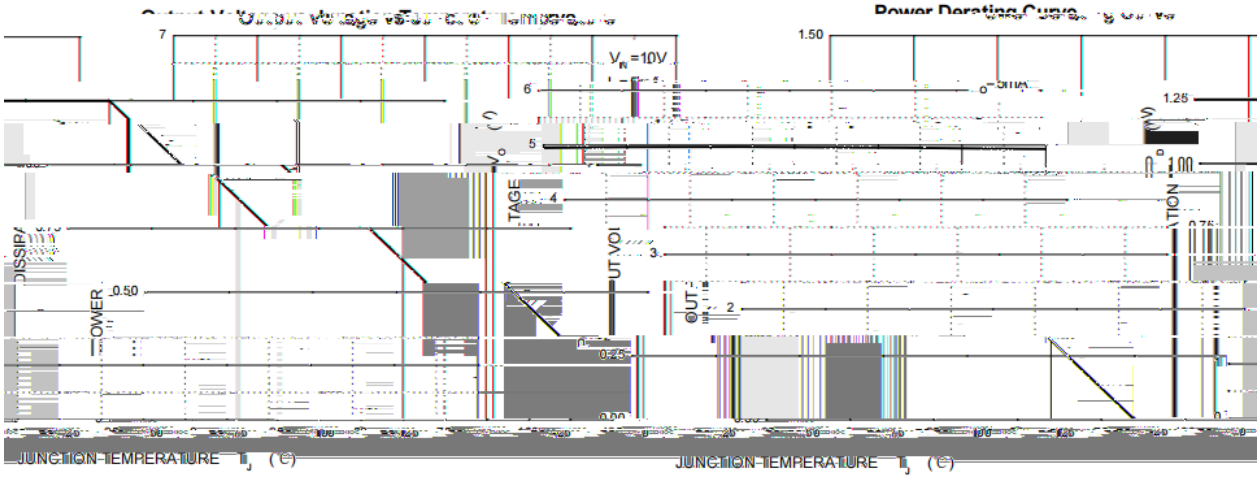
Parameter	Symbol	Rating	Unit
Input voltage	V_I	35	V
Power Dissipation	P_D	Internally Limited	W
Thernal Resistance Junction-Ambient	$R_{\theta JA}$	105	/W
Thernal Resistance Junction-Case	$R_{\theta JC}$	10	/W
Operating Temperature Range	T_{OPR}	-40 125	
Storage temperature range	T_{stg}	-65 150	

/ Electrical Characteristics(V_i=10V,I_o=350mA,T_j=0 ~125 ,unless otherwise specified

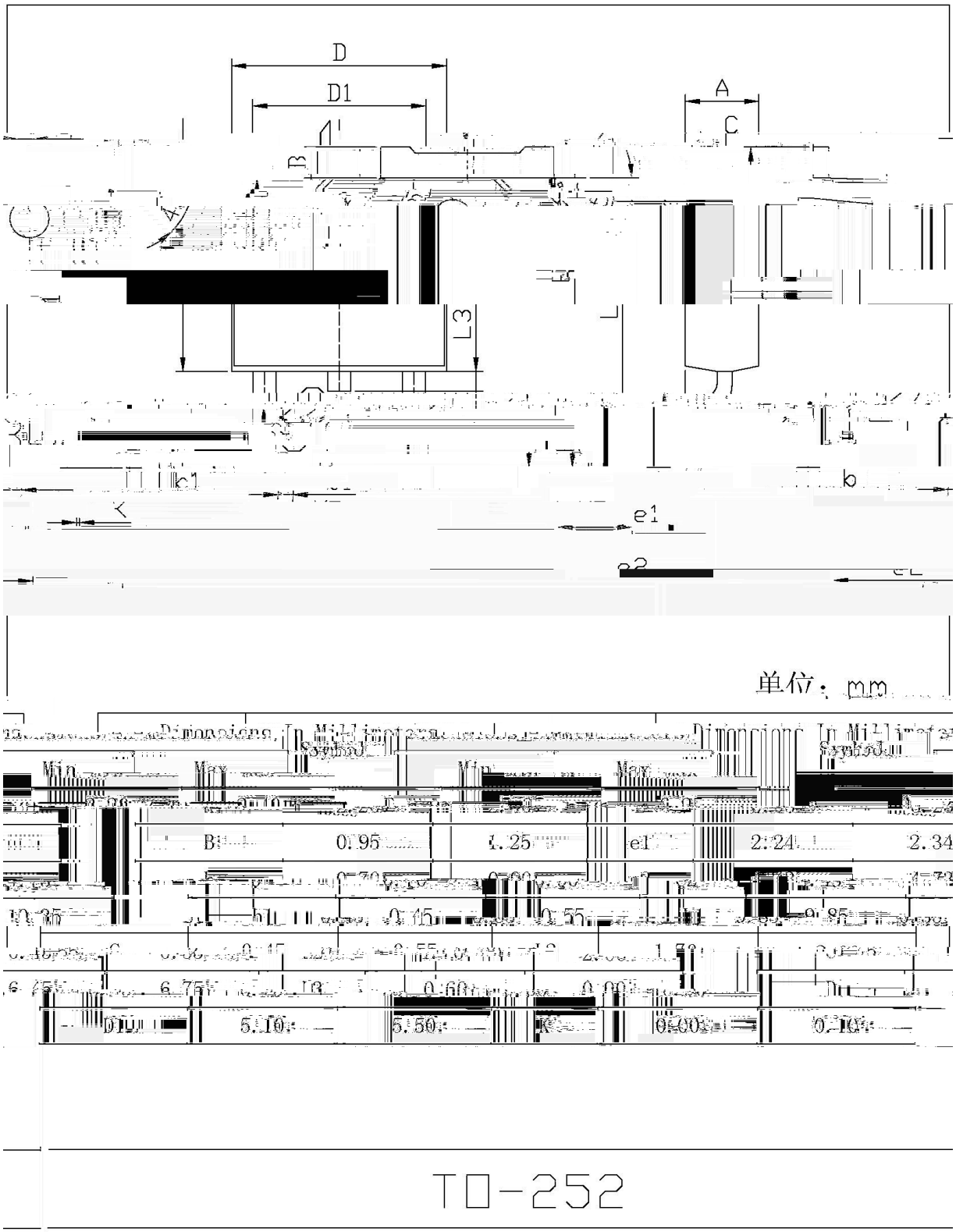
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Output Voltage	V_O	T_j=25	4.8	5.0	5.2	V
		V_i=7V~20V Io=5mA~350mA	4.75	5.0	5.25	V
Load Regulation	V_{Load}	T_j=25 Io=5mA~500mA			100	mV
		T_j=25 Io=5mA~200mA			50	mV
Line Regulation	V_{Line}	T_j=25 Vi=7V~25V			100	mV
		T_j=25 Vi=8V~25V			50	mV
Quiescent Current	Iq	T_j=25			6.0	mA
Quiescent Current Change	Iq	V_i=8V~25V			0.8	mA
		Io=5mA~350mA			0.5	mA
Output Voltage Drift	Vo/ T	Io=5mA T_j=0~125		0.5		mV/
Output Noise Voltage	eN	B=10Hz~100KHz T_j=25		40		μV/Vo
Supply Voltage Rejection	SVR	V_i=8V~18V f=120Hz	62			dB
Dropout Voltage	Vd	T_j=25		2.0		V
Short Circuit Current	Isc	T_j=25		700		mA

/ Electrical Characteristic Curve

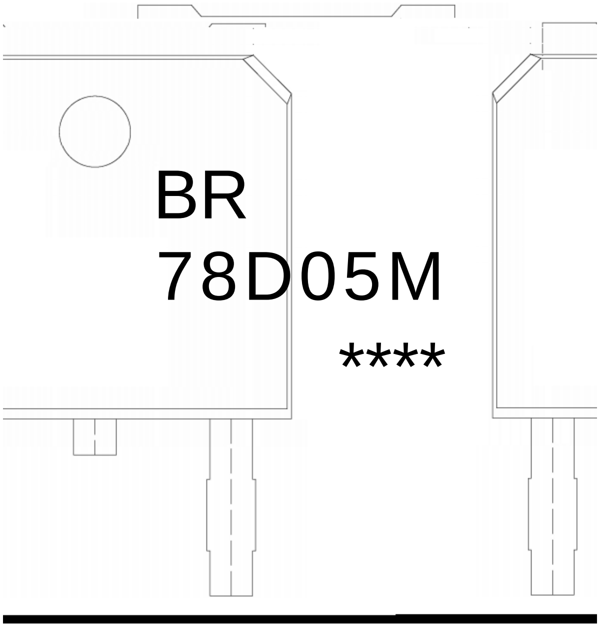




/ Package Dimensions



/ Marking Instructions



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Note:

BR:	Company Code
78D05M:	Product Type
****:	Lot No. Code, code change with Lot No

/ Notices

Λɔ ت ژ ϡ ϒ ⁼ ژ ˛ ϒ ò □ ʯ ų ļ ѽ ل Ӈ ļ ▾ └ ɔ ķ ⁼ ڃ ļ ▾ └ ɔ ķ ı Ӈ ļ ▾ └ ɔ ķ ò □ Æ ŧ ɔ ɹ ɔ ķ ı ڃ ļ ▾ └ ɔ ķ ò □ Æ ŧ ⅅ ɔ ķ ı ħ ژ ˛ ϒ ɔ ɹ ɔ ķ ķ ˛ á ɲ ļ Ӈ ژ ϡ ϒ ɔ ɹ ɔ ķ ķ ˛ ı گ Ƀ è ɔ ϐ H ژ ˛ ɔ я ɾ ѡ ژ ϡ ϒ PCB ų ṕ ϐ H ı Ẓ Ṅ ▾ └ ɔ ķ ˙ ˛ ő ı ĩ ، ġ ɔ ت ژ ϡ ⁼ ژ ˛ Ậ ű ѽ ɹ

Λ ژ ϡ ϒ ⁼ ژ ˛ ϒ я Ţ j ĩ θ ƶ ı θ ƶ ˛ ڄ Ω ѽ ' Ό ھ ∪ Ӈ ı ǎ ƶ ı ǎ ħ Ẹ ɔ ◊ Ψ ק ۍ ƶ Λ ˛ Ⅱ ب ɔ я ϐ H ı ĩ h ` ϒ Ω q ɔ ت ژ ϡ ϒ ⁼ ژ ˛ ϒ я Ţ ͡ j ĩ θ ṇ ı Ӈ ω ṇ я Ţ ϐ H h ẽ φ ژ ˛ ϒ ḧ ό ḫ ڳ Æ ŧ ϐ H ı ف ، ᄉ ᵀ ǎ Ɜ ژ ˛ ɔ ╙ ϕ ϟ ë ♬ ڳ ⁼ Ṃ Ł ı ǎ ı J̌ Ο ᵀ گ ژ ϡ ژ ˛ я Ţ ı Ȝ - Ϋ ϒ ſ ϒ Ω ♬ ù ` ı گ Ƀ Ϋ * Ẃ Ṫ Ă □ ẙ ˛ ḫ ɲ ف ϡ ♬ Ȝ ï ↑ õ

Λ Ẹ Ϋ ϒ ſ Ḿ ı ، ό ļ ∂ ۍ ڃ ã Ϋ * Ẃ Ṫ Ă ϐ H ě ɔ ע ᴸ ⅝ ۍ Ủ ı Ϋ ϒ ſ ϕ ϟ ϐ H ı Ẓ Χ ˙ ǎ Ɜ ɔ ت ϒ Ȝ ï ù Ạ ε ḅ χ ϖ ɾ ⫤ ╨ ص я ⁼ ص ╙ Ȝ ï ζ ı ω ѽ ″ H ả Ẃ ڃ я ǐ ˙ ã ɔ ɻ ⫤ ╨ Ḿ ɔ ت ϒ Æ ` ı گ Ƀ ɔ ت ả Ẃ ♪ ⅓ ˛ ѽ