

60-V Load-Dump Protection

Internal Thermal-Overload Protection

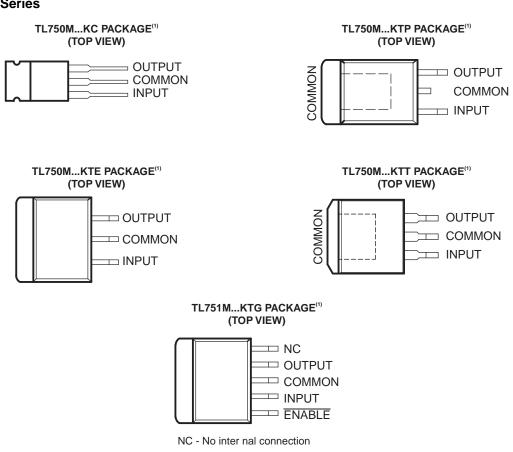
Internal Overcurrent-Limiting Circuitry

Overvoltage Protection

SLVS021K-JANUARY 1988-REVISED OCTOBER 2006

FEATURES

- Very Low Dropout Voltage, Less Than 0.6 V at 750 mA
- Low Quiescent Current
- TTL- and CMOS-Compatible Enable on TL751M Series



(1) The common terminal is in electrical contact with the mounting base.

DESCRIPTION/ORDERING INFORMATION

The TL750M and TL751M series are low-dropout positive voltage regulators specifically designed for battery-powered systems. The TL750M and TL751M series incorporate onboard overvoltage and current-limiting protection circuitry to protect the devices and the regulated system. Both series are fully protected against 60-V load-dump and reverse-battery conditions. Extremely low quiescent current, even during full-load conditions, makes the TL750M and TL751M series ideal for standby power systems.

The TL750M and TL751M series offers 5-V, 8-V, 10-V, and 12-V options. The TL751M series has the addition of an enable (ENABLE) input. The ENABLE input gives the designer complete control over power up, allowing sequential power up or emergency shutdown. When ENABLE is high, the regulator output is placed in the high-impedance state. The ENABLE input is TTL and CMOS compatible.

The TL750MxxC and TL751MxxC are characterized for operation over the virtual junction temperature range 0°C to 125°C.



Please be aware that an important notice concerning availability, standard warranty, and use in critical applications of Texas Instruments semiconductor products and disclaimers thereto appears at the end of this data sheet.

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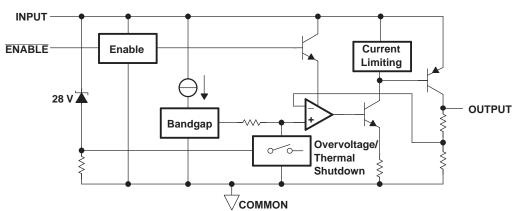


ORDERING INFORMATION

Tj	V _O TYP	PACKAGE ⁽¹⁾		ORDERABLE PART NUMBER ⁽²⁾	TOP-SIDE MARKING
		PowerFLEX [™] – KTE	Reel of 2000	TL750M05CKTER	TL750M05C
		PowerFLEX – KTG	Reel of 2000	TL751M05CKTGR	TL751M05C
	5 V	PowerFLEX – KTP	Reel of 3000	TL750M05CKTPR	750M05C
0°C to 125°C		TO-220 – KC	Tube of 50	TL750M05CKC	TL750M05C
		TO-263 – KTT	Reel of 500	TL750M05CKTTR	TL750M05C
	10 V	TO-220 – KC	Tube of 50	TL750M10CKC	TL750M10C
	12 V	TO-220 – KC	Tube of 50	TL750M12CKC	TL750M12C

(1) Package drawings, standard packing quantities, thermal data, symbolization, and PCB design guidelines are available at www.ti.com/sc/package.

(2) For the most current ordering information, see the Package Option Addendum at the end of this data sheet.



TL751Mxx FUNCTIONAL BLOCK DIAGRAM

DEVICE COMPONENT COUNT				
Transistors	46			
Diodes	14			
Resistors	44			
Capacitors	4			
JFETs	1			
Tunnels (emitter R)	2			

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Absolute Maximum Ratings⁽¹⁾

over virtual junction temperature range (unless otherwise noted)

			MIN	MAX	UNIT
	Continuous input voltage			26	V
	Transient input voltage (see Figure 3)			60	V
	Continuous reverse input voltage			-15	V
	Transient reverse input voltage	t = 100 ms		-50	V
		KC package		22	
		KTE package		23	
θ_{JA}	Package thermal impedance ⁽²⁾⁽³⁾	KTG package		23	°C/W
		KTP package		28	
		KTT package		25.3	
TJ	Virtual junction temperature range		0	150	°C
	Lead temperature	1,6 mm (1/16 in) from case for 10 s		260	°C
T _{stg}	Storage temperature range		-65	150	°C

(1) Stresses beyond those listed under "absolute maximum ratings" may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated under "recommended operating conditions" is not implied. Exposure to absolute-maximum-rated conditions for extended periods may affect device reliability.

(2) Maximum power dissipation is a function of $T_J(max)$, θ_{JA} , and T_A . The maximum allowable power dissipation at any allowable ambient temperature is $P_D = (T_J(max) - T_A)/\theta_{JA}$. Operating at the absolute maximum T_J of 150°C can affect reliability. Due to variation in individual device electrical characteristics and thermal resistance, the built-in thermal-overload protection may be activated at power levels slightly above or below the rated dissipation.

(3) The package thermal impedance is calculated in accordance with JESD 51.

Recommended Operating Conditions

			MIN	MAX	UNIT
		TL75xM05	6	26	
	Input veltage	TL75xM08	9	26	V
VI	Input voltage	TL75xM10	11	26	v
		TL75xM12	13	26	
V _{IH}	High-level ENABLE input voltage	TL751Mxx	2	15	V
VIL	Low-level ENABLE input voltage	TL751Mxx	0	0.8	V
Ι _Ο	Output current	TL75xMxxC		750	mA
TJ	Operating virtual junction temperature	TL75xMxxC	0	125	°C

TL751MxxC Switching Characteristics

 $V_I = 14 \text{ V}, I_O = 300 \text{ mA}, T_J = 25^{\circ}\text{C}$ (unless otherwise noted)

	PARAMETER		UNIT
	FARAMETER	ТҮР	UNIT
t _r	Response time, ENABLE to output	50	μs

TL750M SERIES, TL751M SERIES LOW-DROPOUT VOLTAGE REGULATORS SLVS021K-JANUARY 1988-REVISED OCTOBER 2006

TL75xM05C Electrical Characteristics⁽¹⁾

 $V_{\rm I}$ = 14 V, $I_{\rm O}$ = 300 mA, $\overline{\rm ENABLE}$ = 0 V for TL751M05, $T_{\rm J}$ = 25°C (unless otherwise noted)

PARAMETER	TEST CONDITIONS		TL750M05C TL751M05C			
		MIN	TYP	MAX		
Output uplicana		4.95	5	5.05	V	
Output voltage	$T_J = 0^{\circ}C$ to $125^{\circ}C$	4.9		5.1	V	
Insut valtage regulation	$V_{I} = 9 V$ to 16 V, $I_{O} = 250 mA$		10	25		
Input voltage regulation	$V_{I} = 6 V$ to 26 V, $I_{O} = 250 \text{ mA}$		12	50	mV	
Ripple rejection	V _I = 8 V to 18 V, f = 120 Hz	50	55		dB	
Output regulation voltage	I _O = 5 mA to 750 mA		20	50	mV	
Dressettualtage	I _O = 500 mA			0.5	V	
Dropout voltage	I _O = 750 mA			0.6	v	
Output noise voltage	f = 10 Hz to 100 kHz		500		μV	
D'an anna d	I _O = 750 mA		60	75		
Bias current	I _O = 10 mA			5	mA	
Bias current (TL751Mxx only)	ENABLE ≥ 2 V			200	μA	

(1) Pulse-testing techniques maintain the junction temperature as close to the ambient temperature as possible. Thermal effects must be taken into account separately. All characteristics are measured with a 0.1-μF capacitor across the input and a 10-μF tantalum capacitor on the output, with equivalent series resistance within the guidelines shown in Figure 1.

TL75xM08C Electrical Characteristics⁽¹⁾

 $V_{I} = 14 \text{ V}, I_{O} = 300 \text{ mA}, \overline{\text{ENABLE}} = 0 \text{ V} \text{ for TL751M08}, T_{J} = 25^{\circ}\text{C} \text{ (unless otherwise noted)}$

PARAMETER	TEST CONDITIONS		TL750M08C TL751M08C			
		MIN	TYP	MAX		
		7.92	8	8.08	V	
Output voltage	$T_J = 0^{\circ}C$ to $125^{\circ}C$	7.84		8.16	v	
Insut voltage regulation	$V_{I} = 10 \text{ V to } 17 \text{ V}, I_{O} = 250 \text{ mA}$		12	40		
Input voltage regulation	$V_{I} = 9 V$ to 26 V, $I_{O} = 250 \text{ mA}$		15	68	mV	
Ripple rejection	V _I = 11 V to 21 V, f = 120 Hz	50	55		dB	
Output regulation voltage	I _O = 5 mA to 750 mA		24	80	mV	
Dreneutusliens	I _O = 500 mA			0.5	V	
Dropout voltage	I _O = 750 mA			0.6	v	
Output noise voltage	f = 10 Hz to 100 kHz		500		μV	
Diag aureant	I _O = 750 mA		60	75		
Bias current	I _O = 10 mA			5	mA	
Bias current (TL751Mxx only)	ENABLE ≥ 2 V			200	μA	

(1) Pulse-testing techniques maintain the junction temperature as close to the ambient temperature as possible. Thermal effects must be taken into account separately. All characteristics are measured with a 0.1-μF capacitor across the input and a 10-μF tantalum capacitor on the output, with equivalent series resistance within the guidelines shown in Figure 1.

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TL75xM10C Electrical Characteristics⁽¹⁾

 $V_1 = 14 \text{ V}, I_0 = 300 \text{ mA}, \overline{\text{ENABLE}} = 0 \text{ V} \text{ for TL751M10}, T_1 = 25^{\circ}\text{C} \text{ (unless otherwise noted)}$

PARAMETER	TEST CONDITIONS		TL750M10C TL751M10C			
		MIN	TYP	MAX		
		9.9	10	10.1	V	
Output voltage	$T_J = 0^{\circ}C$ to $125^{\circ}C$	9.8		10.2	v	
Insut voltage regulation	$V_{I} = 12$ V to 18 V, $I_{O} = 250$ mA		15	43	mV	
Input voltage regulation	V _I = 11 V to 26 V, I _O = 250 mA		20	75	mv	
Ripple rejection	V _I = 13 V to 23 V, f = 120 Hz	50	55		dB	
Output regulation voltage	I _O = 5 mA to 750 mA		30	100	mV	
Description	I _O = 500 mA			0.5	V	
Dropout voltage	I _O = 750 mA			0.6	v	
Output noise voltage	f = 10 Hz to 100 kHz		1000		μV	
Diag ourrest	I _O = 750 mA		60	75		
Bias current	I _O = 10 mA			5	mA	
Bias current (TL751Mxx only)	ENABLE ≥ 2 V			200	μA	

(1) Pulse-testing techniques maintain the junction temperature as close to the ambient temperature as possible. Thermal effects must be taken into account separately. All characteristics are measured with a 0.1-μF capacitor across the input and a 10-μF tantalum capacitor on the output, with equivalent series resistance within the guidelines shown in Figure 1.

TL75xM12C Electrical Characteristics⁽¹⁾

 $V_{I} = 14 \text{ V}, I_{O} = 300 \text{ mA}, \overline{\text{ENABLE}} = 0 \text{ V} \text{ for TL751M12}, T_{J} = 25^{\circ}\text{C} \text{ (unless otherwise noted)}$

PARAMETER	TEST CONDITIONS		TL750M12C TL751M12C			
		MIN	TYP	MAX		
		11.88	12	12.12	V	
Output voltage	$T_J = 0^{\circ}C$ to $125^{\circ}C$	11.76		12.24	v	
Input voltage regulation	$V_{I} = 14$ V to 19 V, $I_{O} = 250$ mA		15	43	m)/	
Input voltage regulation	$V_{I} = 13 \text{ V to } 26 \text{ V}, I_{O} = 250 \text{ mA}$		20	78	mV	
Ripple rejection	V _I = 13 V to 23 V, f = 120 Hz	50	55		dB	
Output regulation voltage	I _O = 5 mA to 750 mA		30	120	mV	
Dreneutuskene	I _O = 500 mA			0.5	V	
Dropout voltage	I _O = 750 mA			0.6	V	
Output noise voltage	f = 10 Hz to 100 kHz		1000		μV	
Dies summent	I _O = 750 mA		60	75		
Bias current	I _O = 10 mA			5	mA	
Bias current (TL751Mxx only)	ENABLE ≥ 2 V			200	μA	

(1) Pulse-testing techniques maintain the junction temperature as close to the ambient temperature as possible. Thermal effects must be taken into account separately. All characteristics are measured with a 0.1-μF capacitor across the input and a 10-μF tantalum capacitor on the output, with equivalent series resistance within the guidelines shown in Figure 1.

PARAMETER MEASUREMENT INFORMATION

The TL750Mxx is a low-dropout regulator. This means that the capacitance loading is important to the performance of the regulator because it is a vital part of the control loop. The capacitor value and the equivalent series resistance (ESR) both affect the control loop and must be defined for the load range and the temperature range. Figure 1 and Figure 2 can establish the capacitance value and ESR range for the best regulator performance.

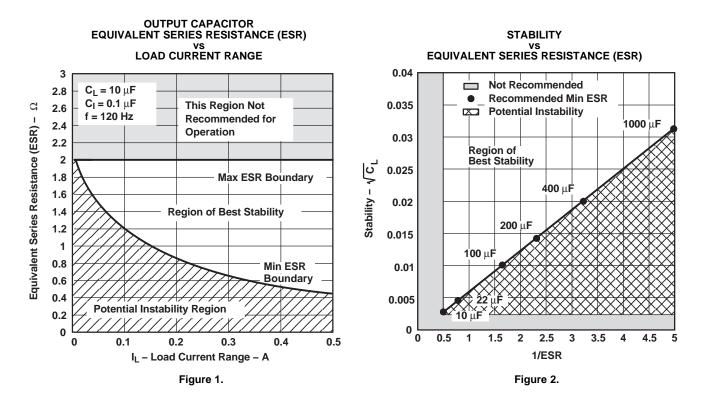
Figure 1 shows the recommended range of ESR for a given load with a $10-\mu$ F capacitor on the output. This figure also shows a maximum ESR limit of 2 Ω and a load-dependent minimum ESR limit.

For applications with varying loads, the lightest load condition should be chosen because it is the worst case. Figure 2 shows the relationship of the reciprocal of ESR to the square root of the capacitance with a minimum capacitance limit of 10 μ F and a maximum ESR limit of 2 Ω . This figure establishes the amount that the minimum ESR limit shown in Figure 1 can be adjusted for different capacitor values.

For example, where the minimum load needed is 200 mA, Figure 1 suggests an ESR range of 0.8 Ω to 2 Ω for 10 μ F. Figure 2 shows that changing the capacitor from 10 μ F to 400 μ F can change the ESR minimum by greater than 3/0.5 (or 6). Therefore, the new minimum ESR value is 0.8/6 (or 0.13 Ω). This allows an ESR range of 0.13 Ω to 2 Ω , achieving an expanded ESR range by using a larger capacitor at the output. For better stability in low-current applications, a small resistance placed in series with the capacitor (see Table 1) is recommended, so that ESRs better approximate those shown in Figure 1 and Figure 2.

MANUFACTURER	CAPACITANCE	ESR TYP	PART NUMBER	ADDITIONAL RESISTANCE	Applied Load	
AVX	15 μF	0.9 Ω	TAJB156M010S	1 Ω	Current Load	
KEMET	33 µF	0.6 Ω	T491D336M010AS	0.5 Ω	Voltage	

Table 1. Compensation for Increased Stability at Low Currents

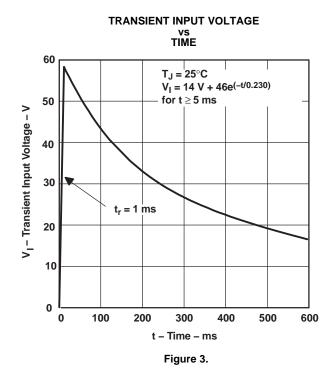


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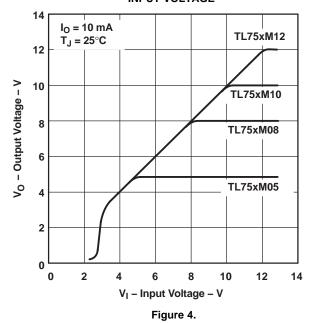
TYPICAL CHARACTERISTICS

Table of Graphs

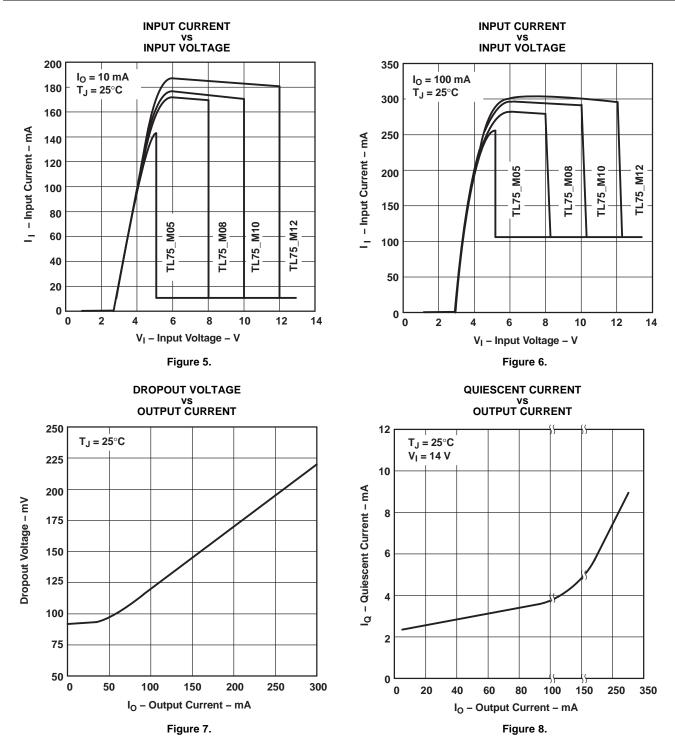
		FIGURE	
Transient input voltage vs Time	3		
Output voltage vs Input voltage			
Input ourrent ve Input veltage	I _O = 10 mA	5	
Input current vs Input voltage	I _O = 100 mA	6	
Dropout voltage vs Output current	Dropout voltage vs Output current		
Quiescent voltage vs Output current			
Load transient response			
Line transient response		10	



OUTPUT VOLTAGE VS



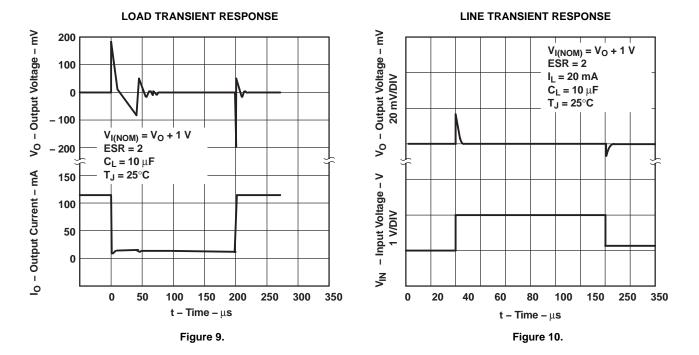
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15-Jan-2007

PACKAGING INFORMATION

TL750M05CKC NRND TO-220 KC 3 50 Pb-Free (RoHS) CU SN (RoHS) TL750M05CKCE3 NRND TO-220 KC 3 50 Pb-Free (RoHS) CU SN (RoHS) TL750M05CKCSE3 ACTIVE TO-220 KCS 3 50 Pb-Free (RoHS) CU SN (RoHS) TL750M05CKCSE3 ACTIVE TO-220 KCS 3 2000 TBD CU SN (RoHS) TL750M05CKTER NRND PFM KTE 3 2000 TBD CU SN no Sb/Br) TL750M05CKTPRG3 NRND PFM KTP 2 3000 Green (RoHS & no Sb/Br) CU SN	N N / A for Pkg Type N N / A for Pkg Type PB Level-1-220C-UNLIM N Level-1-260C-UNLIM
(RoHS) TL750M05CKCSE3 ACTIVE TO-220 KCS 3 50 Pb-Free (RoHS) CU SN CU SN (ROHS) TL750M05CKTER NRND PFM KTE 3 2000 TBD CU SN CU SN CU SN CU SN NO Sb/Br) TL750M05CKTPRG3 NRND PFM KTP 2 3000 Green (RoHS & no Sb/Br) CU SN	N N / A for Pkg Type PB Level-1-220C-UNLIM N Level-1-260C-UNLIM
TL750M05CKTER NRND PFM KTE 3 2000 TBD CU SNF TL750M05CKTPR NRND PFM KTP 2 3000 Green (RoHS & CU SN F TL750M05CKTPR NRND PFM KTP 2 3000 Green (RoHS & CU SN F TL750M05CKTPRG3 NRND PFM KTP 2 3000 Green (RoHS & CU SN F	PB Level-1-220C-UNLIM N Level-1-260C-UNLIM
TL750M05CKTPR NRND PFM KTP 2 3000 Green (RoHS & CU SN no Sb/Br) TL750M05CKTPRG3 NRND PFM KTP 2 3000 Green (RoHS & CU SN no Sb/Br)	N Level-1-260C-UNLIM
no Sb/Br) TL750M05CKTPRG3 NRND PFM KTP 2 3000 Green (RoHS & CU SN	
	Level-1-260C-UNLIM
no Sb/Br)	
TL750M05CKTTR ACTIVE DDPAK/ KTT 3 500 Green (RoHS & CU SN TO-263 no Sb/Br)	N Level-3-245C-168 HR
TL750M05CKTTRG3 ACTIVE DDPAK/ KTT 3 500 Green (RoHS & CU SN TO-263 no Sb/Br)	N Level-3-245C-168 HR
TL750M05CKVURG3 ACTIVE PFM KVU 3 2500 Green (RoHS & CU SM no Sb/Br)	Level-3-260C-168 HR
TL750M08CKCE3 NRND TO-220 KC 3 50 Pb-Free CU SM (RoHS)	N N / A for Pkg Type
TL750M08CKCSE3 ACTIVE TO-220 KCS 3 50 Pb-Free CU SM (RoHS)	N N / A for Pkg Type
TL750M08CKTPRG3 NRND PFM KTP 2 3000 Green (RoHS & CU SM no Sb/Br)	Level-1-260C-UNLIM
TL750M08CKVURG3 ACTIVE PFM KVU 3 2500 Green (RoHS & CU SM no Sb/Br)	Level-3-260C-168 HR
TL750M10CKC NRND TO-220 KC 3 50 Pb-Free CU SM (RoHS)	N N / A for Pkg Type
TL750M10CKCE3 NRND TO-220 KC 3 50 Pb-Free CU SM (RoHS)	N N / A for Pkg Type
TL750M10CKCSE3 ACTIVE TO-220 KCS 3 50 Pb-Free CU SM (RoHS)	N N / A for Pkg Type
TL750M10CKTER NRND PFM KTE 3 2000 TBD CU SNF	PB Level-1-220C-UNLIM
TL750M10CKTPR NRND PFM KTP 2 3000 Green (RoHS & CU SM no Sb/Br)	Level-1-260C-UNLIM
TL750M10CKTPRG3 NRND PFM KTP 2 3000 Green (RoHS & CU SM no Sb/Br)	Level-1-260C-UNLIM
TL750M10CKVURG3 ACTIVE PFM KVU 3 2500 Green (RoHS & CU SM no Sb/Br)	Level-3-260C-168 HR
TL750M12CKC NRND TO-220 KC 3 50 Pb-Free CU SM (RoHS)	N N / A for Pkg Type
TL750M12CKCE3 NRND TO-220 KC 3 50 Pb-Free CU SM (RoHS)	N N / A for Pkg Type
TL750M12CKCSE3 ACTIVE TO-220 KCS 3 50 Pb-Free CU SM (RoHS)	N N / A for Pkg Type
TL750M12CKTPRG3 NRND PFM KTP 2 3000 Green (RoHS & CU SM no Sb/Br)	N Level-1-260C-UNLIM
TL750M12CKVURG3 ACTIVE PFM KVU 3 2500 Green (RoHS & CU SN no Sb/Br)	Level-3-260C-168 HR
TL751M05CKTGR OBSOLETE PFM KTG 5 TBD Call T	I Call TI

⁽¹⁾ The marketing status values are defined as follows:

ACTIVE: Product device recommended for new designs.

LIFEBUY: TI has announced that the device will be discontinued, and a lifetime-buy period is in effect.

NRND: Not recommended for new designs. Device is in production to support existing customers, but TI does not recommend using this part in a new design.

PREVIEW: Device has been announced but is not in production. Samples may or may not be available.

OBSOLETE: TI has discontinued the production of the device.

⁽²⁾ Eco Plan - The planned eco-friendly classification: Pb-Free (RoHS), Pb-Free (RoHS Exempt), or Green (RoHS & no Sb/Br) - please check http://www.ti.com/productcontent for the latest availability information and additional product content details.

TBD: The Pb-Free/Green conversion plan has not been defined.

Pb-Free (RoHS): TI's terms "Lead-Free" or "Pb-Free" mean semiconductor products that are compatible with the current RoHS requirements for all 6 substances, including the requirement that lead not exceed 0.1% by weight in homogeneous materials. Where designed to be soldered at high temperatures, TI Pb-Free products are suitable for use in specified lead-free processes.

Pb-Free (RoHS Exempt): This component has a RoHS exemption for either 1) lead-based flip-chip solder bumps used between the die and package, or 2) lead-based die adhesive used between the die and leadframe. The component is otherwise considered Pb-Free (RoHS compatible) as defined above.

Green (RoHS & no Sb/Br): TI defines "Green" to mean Pb-Free (RoHS compatible), and free of Bromine (Br) and Antimony (Sb) based flame retardants (Br or Sb do not exceed 0.1% by weight in homogeneous material)

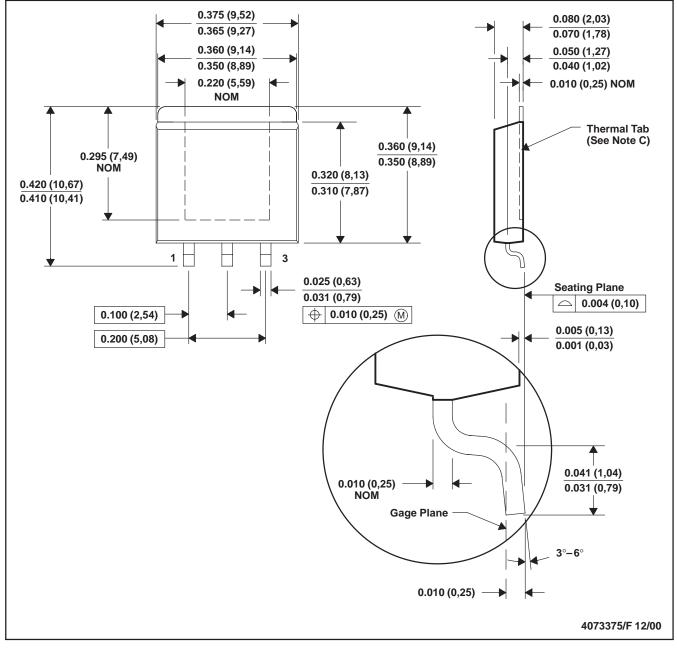
⁽³⁾ MSL, Peak Temp. -- The Moisture Sensitivity Level rating according to the JEDEC industry standard classifications, and peak solder temperature.

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MPFM001E - OCTOBER 1994 - REVISED JANUARY 2001

PowerFLEX[™] PLASTIC FLANGE-MOUNT



- NOTES: A. All linear dimensions are in inches (millimeters).
 - B. This drawing is subject to change without notice.
 - C. The center lead is in electrical contact with the thermal tab.
 - D. Dimensions do not include mold protrusions, not to exceed 0.006 (0,15).
 - E. Falls within JEDEC MO-169

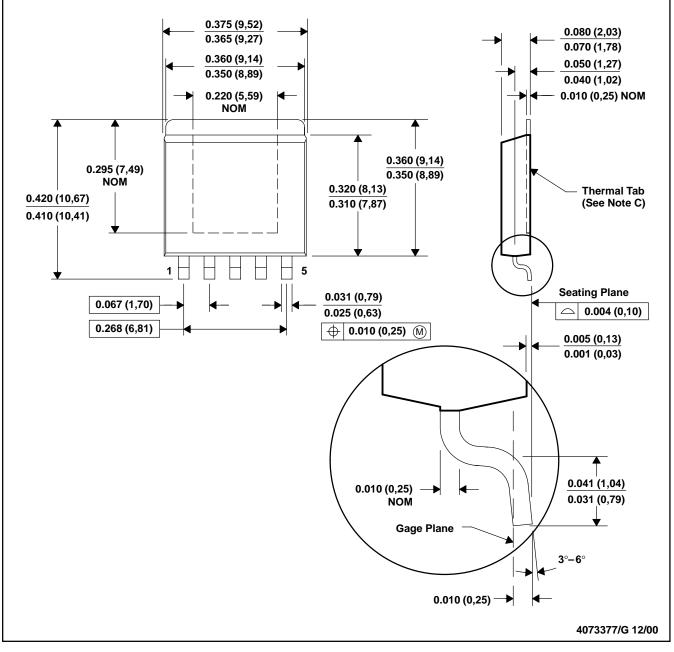
KTE (R-PSFM-G3)

MECHANICAL DATA

MPFM003F - OCTOBER 1994 - REVISED MARCH 2002

PowerFLEX[™] PLASTIC FLANGE-MOUNT PACKAGE

KTG (R-PSFM-G5)



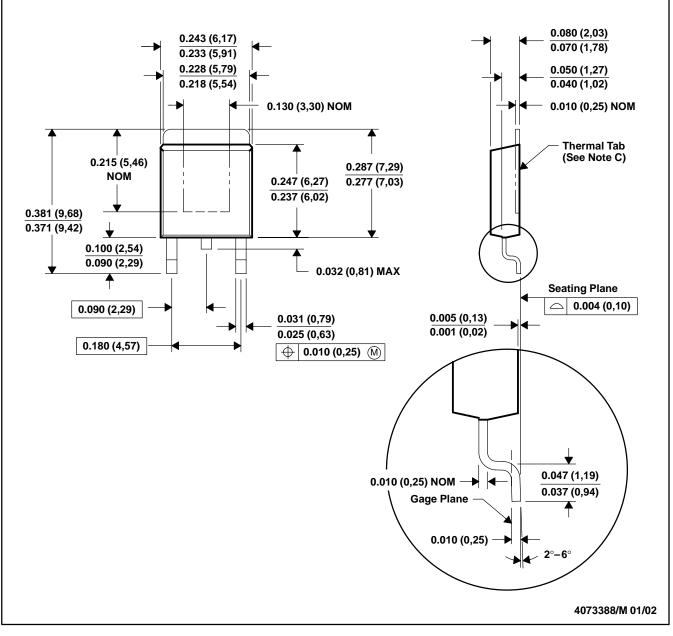
- NOTES: A. All linear dimensions are in inches (millimeters).
 - B. This drawing is subject to change without notice.
 - C. The center lead is in electrical contact with the thermal tab.
 - D. Dimensions do not include mold protrusions, not to exceed 0.006 (0,15).
 - E. FAIIs within JEDEC MO-169

MECHANICAL DATA

MPSF001F - JANUARY 1996 - REVISED JANUARY 2002

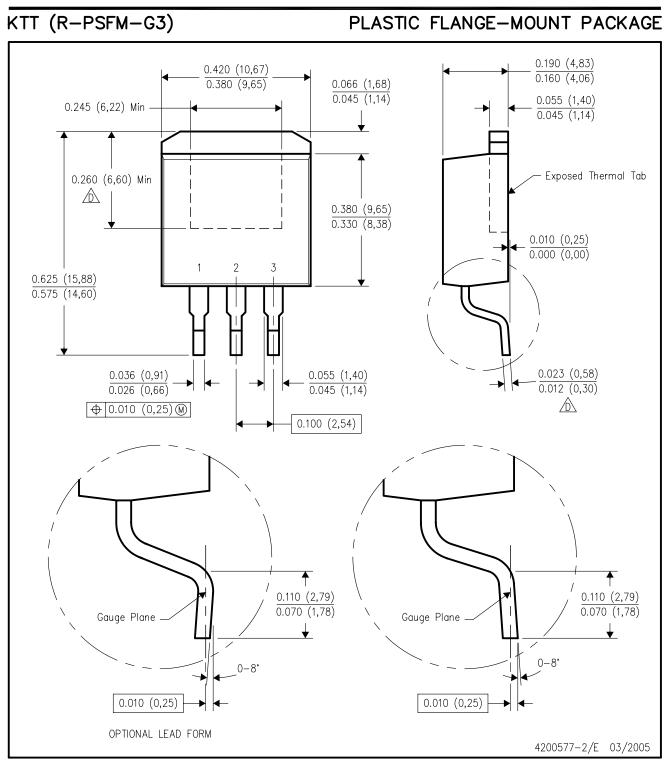
KTP (R-PSFM-G2)

PowerFLEX[™] PLASTIC FLANGE-MOUNT PACKAGE



- NOTES: A. All linear dimensions are in inches (millimeters).
 - B. This drawing is subject to change without notice.
 - C. The center lead is in electrical contact with the thermal tab.
 - D. Dimensions do not include mold protrusions, not to exceed 0.006 (0,15).
 - E. Falls within JEDEC TO-252 variation AC.

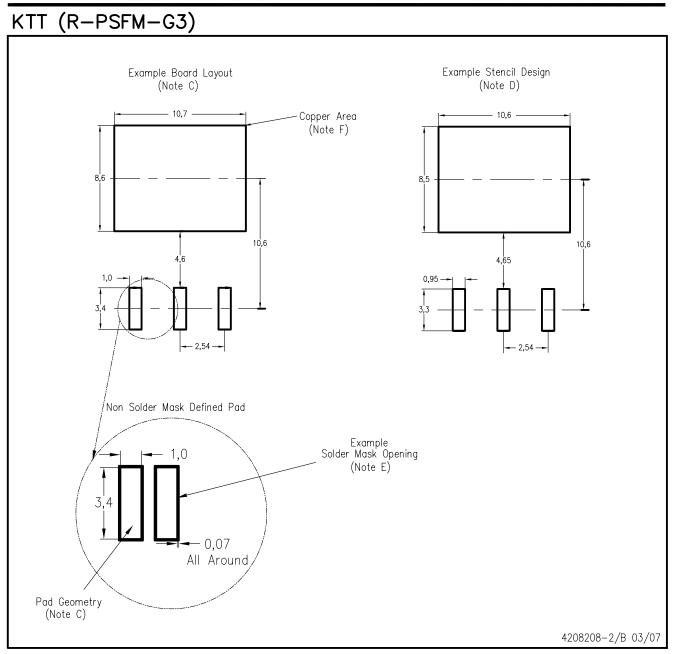
MECHANICAL DATA



NOTES: A. All linear dimensions are in inches (millimeters).

- B. This drawing is subject to change without notice.
- C. Body dimensions do not include mold flash or protrusion. Mold flash or protrusion not to exceed 0.005 (0,13) per side.
- A Falls within JEDEC TO-263 variation AA, except minimum lead thickness and minimum exposed pad length.





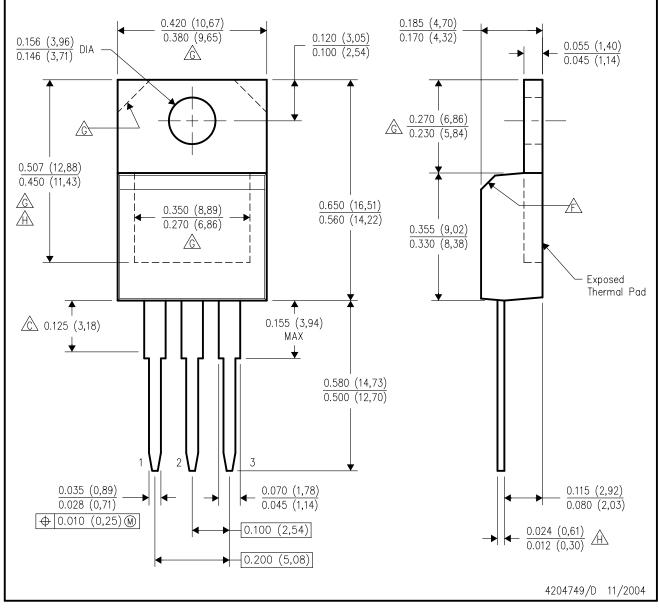
NOTES: A. All linear dimensions are in millimeters.

- B. This drawing is subject to change without notice.
- C. Publication IPC-SM-782 is recommended for alternate designs.
- D. Laser cutting apertures with trapezoidal walls and also rounding corners will offer better paste release.
- Customers should contact their board assembly site for stencil design recommendations. Refer to IPC-7525. E. Customers should contact their board fabrication site for solder mask tolerances between and around signal pads.
- F. This package is designed to be soldered to a thermal pad on the board. Refer to the Product Datasheet for specific thermal information, via requirements, and recommended thermal pad size. For thermal pad sizes larger than shown a solder mask defined pad is recommended in order to maintain the solderable pad geometry while increasing copper area.



KCS (R-PSFM-T3)

PLASTIC FLANGE-MOUNT PACKAGE



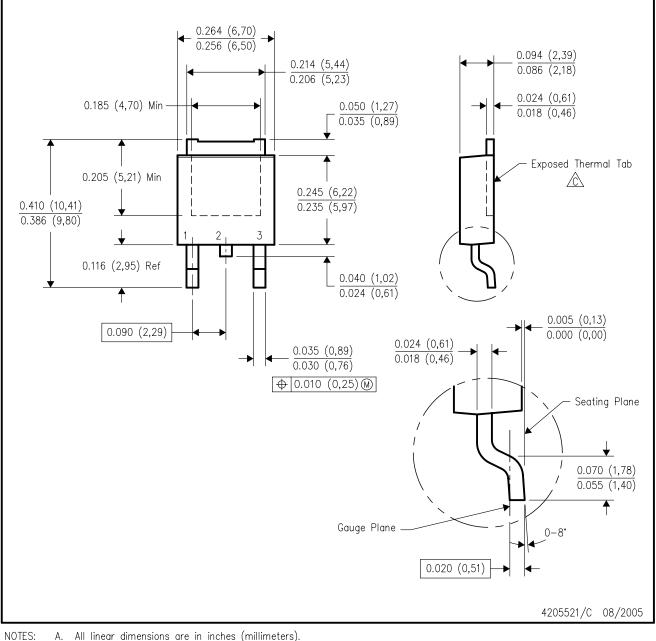
NOTES:

- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice. \triangle
- Lead dimensions are not controlled within this area.
- D. All lead dimensions apply before solder dip.
- E. The center lead is in electrical contact with the mounting tab.
- \cancel{F} The chamfer is optional.
- A Thermal pad contour optional within these dimensions.
- m /h Falls within JEDEC TO-220 variation AB, except minimum lead thickness and minimum exposed pad length.



KVU (R-PSFM-G3)

PLASTIC FLANGE-MOUNT PACKAGE

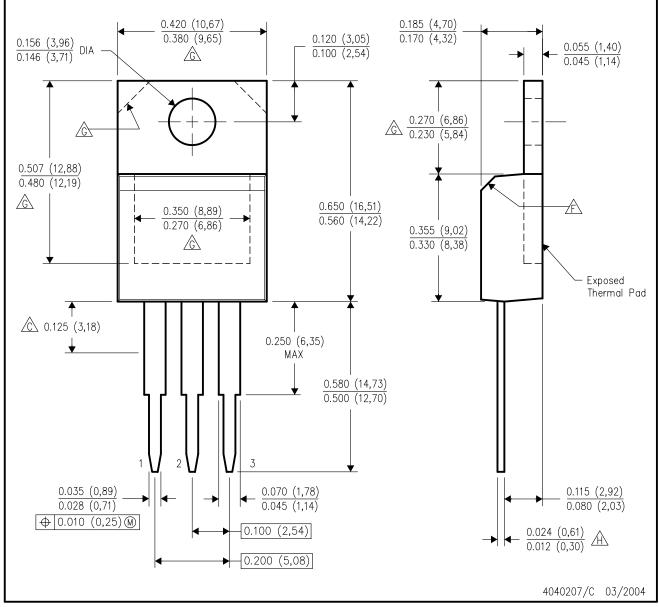


- A. All linear dimensions are in inches (millimeters).
 - B. This drawing is subject to change without notice.
- \bigtriangleup The center lead is in electrical contact with the exposed thermal tab.
- Body Dimensions do not include mold flash or protrusions. Mold flash and protrusion shall not exceed 0.006 (0,15) per side. D. E. Falls within JEDEC TO-252 variation AA.



KC (R-PSFM-T3)

PLASTIC FLANGE-MOUNT PACKAGE



NOTES:

- A. All linear dimensions are in inches (millimeters).B. This drawing is subject to change without notice.
- Lead dimensions are not controlled within this area.

D. All lead dimensions apply before solder dip.

- E. The center lead is in electrical contact with the mounting tab.
- \overbrace{F} The chamfer is optional.
- A Thermal pad contour optional within these dimensions.
- \triangle Falls within JEDEC TO-220 variation AB, except minimum lead thickness.



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