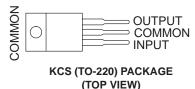
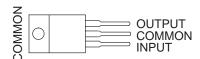
- 3-Terminal Regulators
- **Output Current up to 1.5 A**
- **Internal Thermal-Overload Protection**

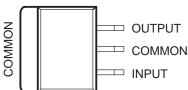
KC (TO-220) PACKAGE (TOP VIEW)





- **High Power-Dissipation Capability**
- **Internal Short-Circuit Current Limiting**
- **Output Transistor Safe-Area Compensation**

KTE PACKAGE (TOP VIEW)



description/ordering information

This series of fixed-voltage integrated-circuit voltage regulators is designed for a wide range of applications. These applications include on-card regulation for elimination of noise and distribution problems associated with single-point regulation. Each of these regulators can deliver up to 1.5 A of output current. The internal current-limiting and thermal-shutdown features of these regulators essentially make them immune to overload. In addition to use as fixed-voltage regulators, these devices can be used with external components to obtain adjustable output voltages and currents, and also can be used as the power-pass element in precision regulators.

ORDERING INFORMATION

TJ	V _{O(NOM)}	PACKAGE [†]		ORDERABLE PART NUMBER	TOP-SIDE MARKING
		PowerFLEX™ (KTE)	Reel of 2000	μΑ7805CKTER	μA7805C
	5	TO-220 (KC)	Tube of 50	μA7805CKC	470050
		TO-220, short shoulder (KCS)	Tube of 20	μA7805CKCS	μA7805C
		PowerFLEX (KTE) Reel of 2000		μΑ7808CKTER	μA7808C
	8	TO-220 (KC)	Tube of 50	μA7808CKC	47000
		TO-220, short shoulder (KCS)	Tube of 20	μΑ7808CKCS	μA7808C
	40	PowerFLEX (KTE)	Reel of 2000	μΑ7810CKTER	μA7810C
000 1- 40500	10	TO-220 (KC)	Tube of 50	μΑ7810CKC	μA7810C
0°C to 125°C		PowerFLEX (KTE)	Reel of 2000	μΑ7812CKTER	μA7812C
	12	TO-220 (KC)	Tube of 50	μA7812CKC	470400
		TO-220, short shoulder (KCS)	Tube of 20	μΑ7812CKCS	μA7812C
		PowerFLEX (KTE)	Reel of 2000	μΑ7815CKTER	μA7815C
	15	TO-220 (KC)	Tube of 50	μA7815CKC	A70450
		TO-220, short shoulder (KCS)	Tube of 20	μA7815CKCS	μA7815C
	0.4	PowerFLEX (KTE)	Reel of 2000	μΑ7824CKTER	μA7824C
	24	TO-220 (KC)	Tube of 50	μA7824CKC	μA7824C

[†]Package drawings, standard packing quantities, thermal data, symbolization, and PCB design guidelines are available at www.ti.com/sc/package.

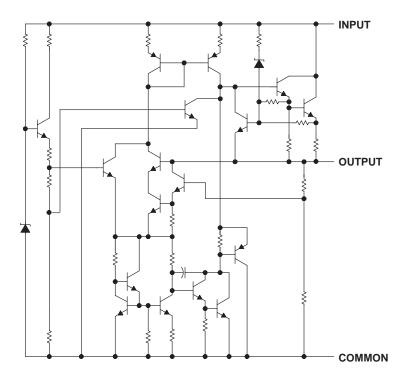


Please be aware that an important notice concerning availability, standard warranty, and use in critical applications of Texas Instruments semiconductor products and disclaimers thereto appears at the end of this data sheet.

PowerFLEX is a trademark of Texas Instruments.



schematic



absolute maximum ratings over virtual junction temperature range (unless otherwise noted)†

Input voltage, V _I : μA7824C	40 V
All others	35 V
Operating virtual junction temperature, T _J	. 150°C
Lead temperature 1,6 mm (1/16 inch) from case for 10 seconds	. 260°C
Storage temperature range, T _{stg} –65°C	io 150°C

[†] 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.

package thermal data (see Note 1)

PACKAGE	BOARD	θ JC	$^{ heta}$ JA	θ _{JP} ‡
PowerFLEX (KTE)	High K, JESD 51-5	3°C/W	23°C/W	
TO-220 (KC/KCS)	High K, JESD 51-5	17°C/W	19°C/W	3°C/W

NOTE 1: 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 PD = (TJ(max) - TA)/0JA. Operating at the absolute maximum TJ of 150°C can affect reliability.



[‡] For packages with exposed thermal pads, such as QFN, PowerPAD, or PowerFLEX, θJP is defined as the thermal resistance between the die junction and the bottom of the exposed pad.

recommended operating conditions

		MIN	MAX	UNIT
	μA7805C	7	25	
	μA7808C	10.5	25	
	μA7810C	12.5	28	.,
VI	Input voltage μA7812C	14.5	30	V
	μA7815C	17.5	30	
	μA7824C	27	38	
IO	Output current		1.5	Α
TJ	Operating virtual junction temperature μA7800C se	eries 0	125	°C

electrical characteristics at specified virtual junction temperature, $V_{\rm I}$ = 10 V, $I_{\rm O}$ = 500 mA (unless otherwise noted)

24244555	TEOT 00	NEITIANA	_ +	μ	A7805C			
PARAMETER	TEST CO	TJ [†]	MIN	TYP	MAX	UNIT		
Outside and the sec	$I_{O} = 5 \text{ mA to 1 A}, \qquad V_{I} = 7 \text{ V to 20 V},$		25°C	4.8	5	5.2	.,	
Output voltage	$P_D \le 15 \text{ W}$		0°C to 125°C	4.75		5.25	V	
Leave to the manual office	V _I = 7 V to 25 V		0500		3	100	>/	
Input voltage regulation	V _I = 8 V to 12 V		25°C		1	50	mV	
Ripple rejection	V _I = 8 V to 18 V,	f = 120 Hz	0°C to 125°C	62	78		dB	
0	I _O = 5 mA to 1.5 A		0500		15	100	.,	
Output voltage regulation	I _O = 250 mA to 750 mA		25°C		5	50	mV	
Output resistance	f = 1 kHz		0°C to 125°C		0.017		Ω	
Temperature coefficient of output voltage	$I_O = 5 \text{ mA}$		0°C to 125°C		-1.1		mV/°C	
Output noise voltage	f = 10 Hz to 100 kHz		25°C		40		μV	
Dropout voltage	I _O = 1 A		25°C		2		V	
Bias current			25°C		4.2	8	mA	
s	V _I = 7 V to 25 V		2004 42500			1.3		
Bias current change	I _O = 5 mA to 1 A		0°C to 125°C	0.5		mA		
Short-circuit output current			25°C		750		mA	
Peak output current			25°C		2.2		Α	

[†] 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 0.33- μ F capacitor across the input and a 0.1- μ F capacitor across the output.

electrical characteristics at specified virtual junction temperature, V_I = 14 V, I_O = 500 mA (unless otherwise noted)

			_ +	μ	A7808C		
PARAMETER	TEST COND	TJ [†]	MIN	TYP	MAX	UNIT	
Output valta sa	$I_O = 5$ mA to 1 A, $V_I = 10.5$ V to 23 V, $P_D \le 15$ W		25°C	7.7	8	8.3	V
Output voltage			0°C to 125°C	7.6		8.4	V
Land of the same and of the	V _I = 10.5 V to 25 V		0500		6	160	
Input voltage regulation	V _I = 11 V to 17 V		25°C		2	80	mV
Ripple rejection	$V_I = 11.5 \text{ V to } 21.5 \text{ V},$	f = 120 Hz	0°C to 125°C	55	72		dB
	I _O = 5 mA to 1.5 A				12	160	.,
Output voltage regulation	I _O = 250 mA to 750 mA		25°C		4	80	mV
Output resistance	f = 1 kHz		0°C to 125°C		0.016		Ω
Temperature coefficient of output voltage	$I_O = 5 \text{ mA}$		0°C to 125°C		-0.8		mV/°C
Output noise voltage	f = 10 Hz to 100 kHz		25°C		52		μV
Dropout voltage	I _O = 1 A		25°C		2		V
Bias current			25°C		4.3	8	mA
8:	V _I = 10.5 V to 25 V		2001 1250			1	
Bias current change	I _O = 5 mA to 1 A		0°C to 125°C			0.5	mA
Short-circuit output current		·	25°C		450		mA
Peak output current			25°C	_	2.2	·	Α

The 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 0.33-µF capacitor across the input and a 0.1-µF capacitor across the output.

electrical characteristics at specified virtual junction temperature, V_I = 17 V, I_O = 500 mA (unless otherwise noted)

2.2.445752	7507.0011	TEST CONDITIONS		μ	μ Α7810C		
PARAMETER	I IEST CONL	TJ [†]	MIN	TYP	MAX	UNIT	
Outrot valence	$I_{O} = 5 \text{ mA to 1 A}, \qquad V_{I} = 12.5 \text{ V to 25 V},$		25°C	9.6	10	10.4	V
Output voltage	P _D ≤ 15 W		0°C to 125°C	9.5	10	10.5	V
	V _I = 12.5 V to 28 V		0500		7	200	
Input voltage regulation	V _I = 14 V to 20 V		25°C		2	100	mV
Ripple rejection	$V_I = 13 \text{ V to } 23 \text{ V},$	f = 120 Hz	0°C to 125°C	55	71		dB
Output voltage regulation	I _O = 5 mA to 1.5 A		2502		12	200	mV
	I _O = 250 mA to 750 mA		25°C		4	100	
Output resistance	f = 1 kHz		0°C to 125°C		0.018		Ω
Temperature coefficient of output voltage	$I_O = 5 \text{ mA}$		0°C to 125°C		-1		mV/°C
Output noise voltage	f = 10 Hz to 100 kHz		25°C		70		μV
Dropout voltage	I _O = 1 A		25°C		2		V
Bias current			25°C		4.3	8	mA
Discourant shares	V _I = 12.5 V to 28 V		000 1- 40500			1	^
Bias current change	I _O = 5 mA to 1 A		0°C to 125°C	0.5		mA	
Short-circuit output current			25°C		400		mA
Peak output current		_	25°C		2.2		Α

[†] 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 0.33-µF capacitor across the input and a 0.1-µF capacitor across the output.



electrical characteristics at specified virtual junction temperature, V_I = 19 V, I_O = 500 mA (unless otherwise noted)

			T _J †	μ Α7812C			
PARAMETER	TEST CO	TEST CONDITIONS			TYP	MAX	UNIT
Output valta sa	$I_{O} = 5 \text{ mA to 1 A}, \qquad V_{I} = 14.5 \text{ V to 27 V}$		25°C	11.5	12	12.5	V
Output voltage	P _D ≤ 15 W		0°C to 125°C	11.4		12.6	V
Lament and the man manufaction	V _I = 14.5 V to 30 V		0500		10	240	>/
Input voltage regulation	V _I = 16 V to 22 V		25°C		3	120	mV
Ripple rejection	V _I = 15 V to 25 V,	f = 120 Hz	0°C to 125°C	55	71		dB
	I _O = 5 mA to 1.5 A		2702		12	240	.,
Output voltage regulation	I _O = 250 mA to 750 mA		25°C		4	120	mV
Output resistance	f = 1 kHz		0°C to 125°C		0.018		Ω
Temperature coefficient of output voltage	$I_O = 5 \text{ mA}$		0°C to 125°C		-1		mV/°C
Output noise voltage	f = 10 Hz to 100 kHz		25°C		75		μV
Dropout voltage	I _O = 1 A		25°C		2		V
Bias current			25°C		4.3	8	mA
5.	V _I = 14.5 V to 30 V					1	
Bias current change	I _O = 5 mA to 1 A		0°C to 125°C			0.5	mA
Short-circuit output current			25°C		350		mA
Peak output current		_	25°C		2.2	·	Α

The 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 0.33-μF capacitor across the input and a 0.1-μF capacitor across the output.

electrical characteristics at specified virtual junction temperature, V_I = 23 V, I_O = 500 mA (unless otherwise noted)

24244555	TEGT CONDITI	10110	т _J †	μ	μ Α7815C		
PARAMETER	TEST CONDIT	TEST CONDITIONS			TYP	MAX	UNIT
Outrout valte as	$I_O = 5 \text{ mA to 1 A}, \qquad V_I = 17.5 \text{ V to 30 V},$		25°C	14.4	15	15.6	
Output voltage	P _D ≤ 15 W		0°C to 125°C	14.25		15.75	V
Input voltage regulation	V _I = 17.5 V to 30 V		0500		11	300	>/
	V _I = 20 V to 26 V		25°C		3	150	mV
Ripple rejection	$V_I = 18.5 \text{ V to } 28.5 \text{ V}, f =$	120 Hz	0°C to 125°C	54	70		dB
Output voltage regulation	I _O = 5 mA to 1.5 A		2502		12	300	
	I _O = 250 mA to 750 mA		25°C		4	150	mV
Output resistance	f = 1 kHz		0°C to 125°C		0.019		Ω
Temperature coefficient of output voltage	$I_O = 5 \text{ mA}$		0°C to 125°C		-1		mV/°C
Output noise voltage	f = 10 Hz to 100 kHz		25°C		90		μV
Dropout voltage	I _O = 1 A		25°C		2		V
Bias current			25°C		4.4	8	mA
Discourant shares	V _I = 17.5 V to 30 V		000 1- 40500			1	0
Bias current change	I _O = 5 mA to 1 A		0°C to 125°C	0.5		mA	
Short-circuit output current			25°C		230		mA
Peak output current		·	25°C		2.1		Α

[†] 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 0.33-μF capacitor across the input and a 0.1-μF capacitor across the output.



μ**A7800 SERIES POSITIVE-VOLTAGE REGULATORS**

SLVS056K - MAY 1976 - REVISED APRIL 2005

electrical characteristics at specified virtual junction temperature, V_{I} = 33 V, I_{O} = 500 mA (unless otherwise noted)

			T _J †	μ	A7824C		
PARAMETER	TEST CO	TEST CONDITIONS			TYP	MAX	UNIT
Output valta sa	$I_O = 5 \text{ mA to 1 A},$	$V_{ } = 27 \text{ V to } 38 \text{ V,}$	25°C	23	24	25	.,
Output voltage	$P_D \le 15 \text{ W}$		0°C to 125°C	22.8		25.2	V
Lament and the man manufaction	V _I = 27 V to 38 V		0500		18	480	
Input voltage regulation	V _I = 30 V to 36 V		25°C		6	240	mV
Ripple rejection	$V_I = 28 \text{ V to } 38 \text{ V},$	f = 120 Hz	0°C to 125°C	50	66		dB
	I _O = 5 mA to 1.5 A				12	480	.,
Output voltage regulation	$I_{O} = 250 \text{ mA to } 750 \text{ mA}$		25°C		4	240	mV
Output resistance	f = 1 kHz		0°C to 125°C		0.028		Ω
Temperature coefficient of output voltage	$I_O = 5 \text{ mA}$		0°C to 125°C		-1.5		mV/°C
Output noise voltage	f = 10 Hz to 100 kHz		25°C		170		μV
Dropout voltage	I _O = 1 A		25°C		2		V
Bias current			25°C		4.6	8	mA
8:	V _I = 27 V to 38 V		2001 12500			1	
Bias current change	I _O = 5 mA to 1 A		0°C to 125°C			0.5	mA
Short-circuit output current			25°C		150		mA
Peak output current			25°C		2.1		Α

[†] 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 0.33-μF capacitor across the input and a 0.1-μF capacitor across the output.



APPLICATION INFORMATION

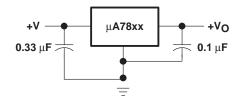


Figure 1. Fixed-Output Regulator

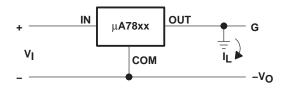
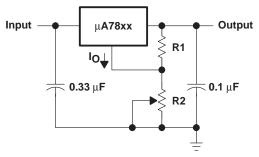


Figure 2. Positive Regulator in Negative Configuration (V_I Must Float)



NOTE A: The following formula is used when V_{XX} is the nominal output voltage (output to common) of the fixed regulator:

$$V_{O} = V_{xx} + \left(\frac{V_{xx}}{R1} + I_{Q}\right)R2$$

Figure 3. Adjustable-Output Regulator

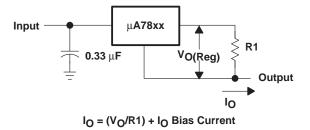


Figure 4. Current Regulator

APPLICATION INFORMATION

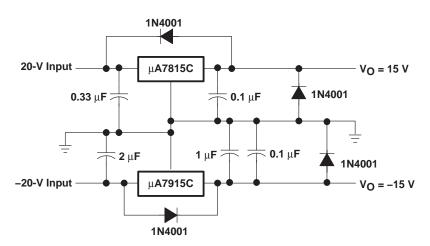


Figure 5. Regulated Dual Supply

operation with a load common to a voltage of opposite polarity

In many cases, a regulator powers a load that is not connected to ground but, instead, is connected to a voltage source of opposite polarity (e.g., operational amplifiers, level-shifting circuits, etc.). In these cases, a clamp diode should be connected to the regulator output as shown in Figure 6. This protects the regulator from output polarity reversals during startup and short-circuit operation.

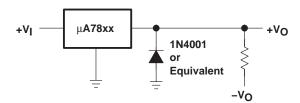


Figure 6. Output Polarity-Reversal-Protection Circuit

reverse-bias protection

Occasionally, the input voltage to the regulator can collapse faster than the output voltage. This can occur, for example, when the input supply is crowbarred during an output overvoltage condition. If the output voltage is greater than approximately 7 V, the emitter-base junction of the series-pass element (internal or external) could break down and be damaged. To prevent this, a diode shunt can be used as shown in Figure 7.

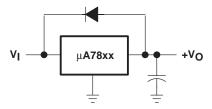


Figure 7. Reverse-Bias-Protection Circuit





PACKAGING INFORMATION

Orderable Device	Status ⁽¹⁾	Package Type	Package Drawing	Pins P	ackage Qty	Eco Plan ⁽²⁾	Lead/Ball Finish	MSL Peak Temp ⁽³⁾
UA7805CKC	NRND	TO-220	KC	3		TBD	CU SNPB	N / A for Pkg Type
UA7805CKCE3	ACTIVE	TO-220	KC	3		Pb-Free (RoHS)	CU SN	N / A for Pkg Type
UA7805CKCS	ACTIVE	TO-220	KCS	3		TBD	CU SNPB	N / A for Pkg Type
UA7805CKTER	NRND	PFM	KTE	3		TBD	CU SNPB	Level-1-220C-UNLIM
UA7805QKC	OBSOLETE	TO-220	KC	3		TBD	Call TI	Call TI
UA7805QKTE	OBSOLETE	PFM	KTE	3		TBD	Call TI	Call TI
UA7806CKC	OBSOLETE	TO-220	KC	3		TBD	Call TI	Call TI
UA7806CKTER	OBSOLETE	PFM	KTE	3		TBD	Call TI	Call TI
UA7806QKTE	OBSOLETE	PFM	KTE	3		TBD	Call TI	Call TI
UA7806QKTER	OBSOLETE	PFM	KTE	3		TBD	Call TI	Call TI
UA7808CKC	NRND	TO-220	KC	3		TBD	CU SNPB	N / A for Pkg Type
UA7808CKCE3	ACTIVE	TO-220	KC	3		Pb-Free (RoHS)	CU SN	N / A for Pkg Type
UA7808CKCS	ACTIVE	TO-220	KCS	3		TBD	CU SNPB	N / A for Pkg Type
UA7808CKTER	NRND	PFM	KTE	3		TBD	CU SNPB	Level-1-220C-UNLIM
UA7808QKTE	OBSOLETE	PFM	KTE	3		TBD	Call TI	Call TI
UA7810CKC	NRND	TO-220	KC	3		TBD	CU SNPB	N / A for Pkg Type
UA7810CKCE3	NRND	TO-220	KC	3		Pb-Free (RoHS)	CU SN	N / A for Pkg Type
UA7810CKCS	ACTIVE	TO-220	KCS	3		TBD	CU SNPB	N / A for Pkg Type
UA7810CKTER	NRND	PFM	KTE	3		TBD	CU SNPB	Level-1-220C-UNLIM
UA7810QKTE	OBSOLETE	PFM	KTE	3		TBD	Call TI	Call TI
UA7812CKC	NRND	TO-220	KC	3		TBD	CU SNPB	N / A for Pkg Type
UA7812CKCS	ACTIVE	TO-220	KCS	3		TBD	CU SNPB	N / A for Pkg Type
UA7812CKCSE3	ACTIVE	TO-220	KCS	3		Pb-Free (RoHS)	CU SN	N / A for Pkg Type
UA7812CKTER	NRND	PFM	KTE	3		TBD	CU SNPB	Level-1-220C-UNLIM
UA7812QKTE	OBSOLETE	PFM	KTE	3		TBD	Call TI	Call TI
UA7815CKC	NRND	TO-220	KC	3		TBD	CU SNPB	N / A for Pkg Type
UA7815CKCS	ACTIVE	TO-220	KCS	3		TBD	CU SNPB	N / A for Pkg Type
UA7815CKTER	NRND	PFM	KTE	3		TBD	CU SNPB	Level-1-220C-UNLIM
UA7815QKTE	OBSOLETE	PFM	KTE	3		TBD	Call TI	Call TI
UA7818CKC	OBSOLETE	TO-220	KC	3		TBD	Call TI	Call TI
UA7818CKTER	OBSOLETE	PFM	KTE	3		TBD	Call TI	Call TI
UA7824CKC	NRND	TO-220	KC	3		TBD	CU SNPB	N / A for Pkg Type
UA7824CKCE3	NRND	TO-220	KC	3		Pb-Free (RoHS)	CU SN	N / A for Pkg Type
UA7824CKCS	ACTIVE	TO-220	KCS	3		TBD	CU SNPB	N / A for Pkg Type
UA7824CKTER	NRND	PFM	KTE	3		TBD	CU SNPB	Level-1-220C-UNLIM
UA7885CKC	OBSOLETE	TO-220	KC	3		TBD	Call TI	Call TI
UA7885CKTER	OBSOLETE	PFM	KTE	3		TBD	Call TI	Call TI
UA7885QKTE	OBSOLETE	PFM	KTE	3		TBD	Call TI	Call TI



PACKAGE OPTION ADDENDUM

24-Feb-2006

(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)

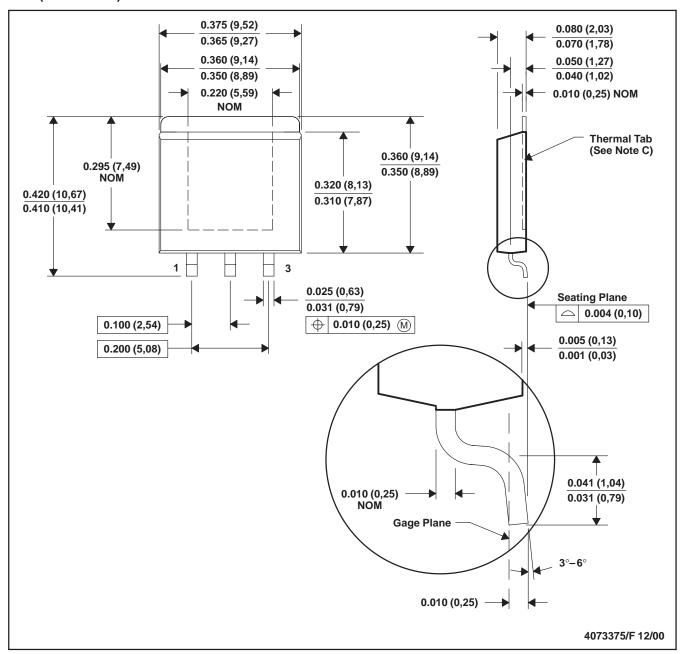
(3) MSL, Peak Temp. -- The Moisture Sensitivity Level rating according to the JEDEC industry standard classifications, and peak solder temperature.

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KTE (R-PSFM-G3)

PowerFLEX™ PLASTIC FLANGE-MOUNT



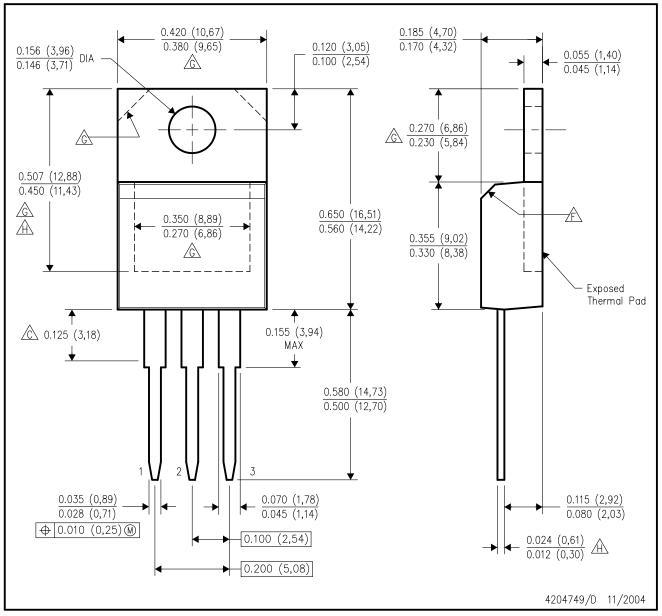
- NOTES: A. All linear dimensions are in inches (millimeters).
 - B. This drawing is subject to change without notice.
 - C. The center lead is in electrical contact with the thermal tab.
 - D. Dimensions do not include mold protrusions, not to exceed 0.006 (0,15).
 - E. Falls within JEDEC MO-169

PowerFLEX is a trademark of Texas Instruments.



KCS (R-PSFM-T3)

PLASTIC FLANGE-MOUNT PACKAGE



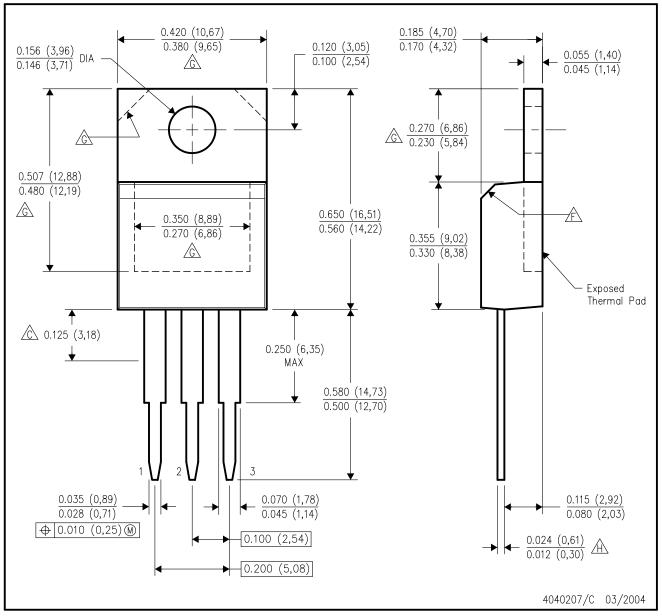
NOTES:

- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- 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.
- The chamfer is optional.
- Thermal pad contour optional within these dimensions.
- ⚠ Falls within JEDEC T0—220 variation AB, except minimum lead thickness and minimum exposed pad length.



KC (R-PSFM-T3)

PLASTIC FLANGE-MOUNT PACKAGE



NOTES: A. All linear

- 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.
- The chamfer is optional.
- Thermal pad contour optional within these dimensions.
- Falls within JEDEC TO-220 variation AB, except minimum lead thickness.



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