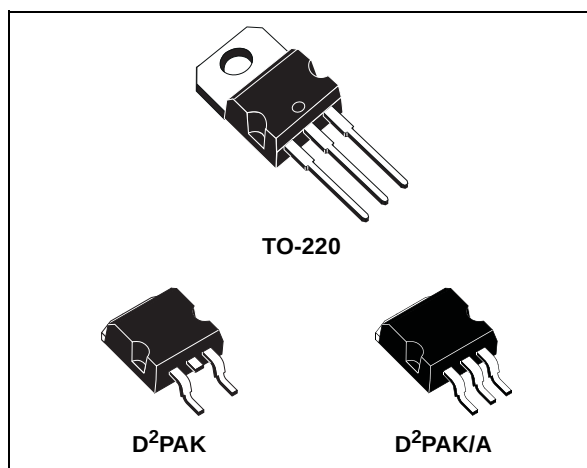


5A LOW DROPOUT FAST RESPONSE POSITIVE VOLTAGE REGULATOR ADJUSTABLE AND FIXED

- TYPICAL DROPOUT 1.2V
- FAST TRANSIENT RESPONSE
- THREE TERMINAL ADJUSTABLE OR FIXED OUTPUT VOLTAGE 1.5V 1.8V, 2.5V, 2.85V, 3.3V, 5V, 8V, 9V, 12V.
- GUARANTEED OUTPUT CURRENT UP TO 5A
- OUTPUT TOLERANCE $\pm 1\%$ AT 25°C AND $\pm 2\%$ IN FULL TEMPERATURE RANGE
- INTERNAL POWER AND THERMAL LIMIT
- WIDE OPERATING TEMPERATURE RANGE 0°C TO 125°C
- PACKAGE AVAILABLE : TO-220, D²PAK, D²PAK/A
- PINOUT COMPATIBILITY WITH STANDARD ADJUSTABLE VREG

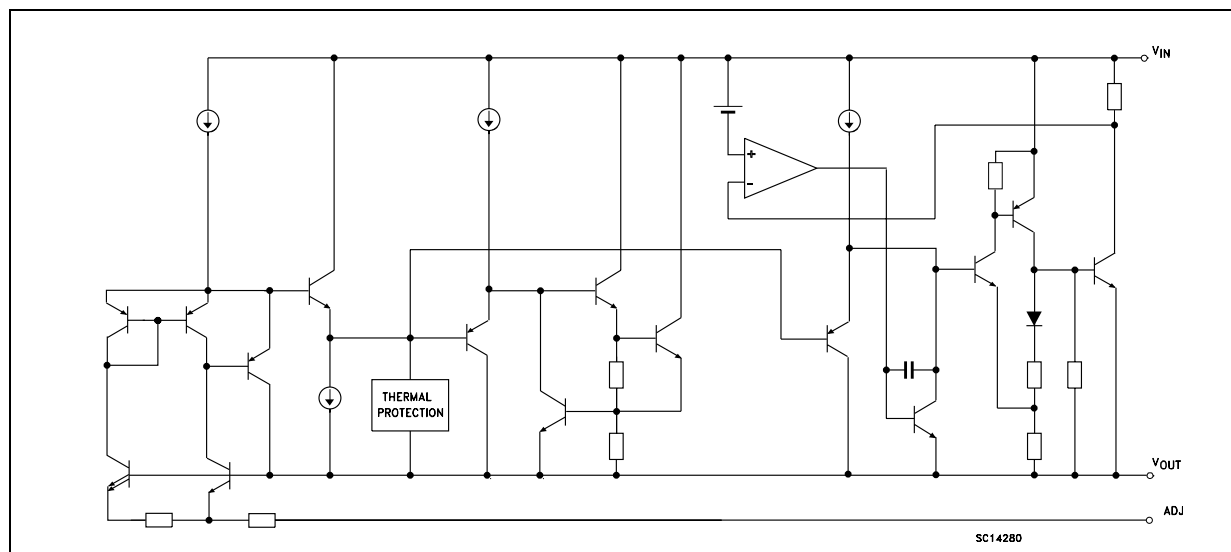


DESCRIPTION

The LD1585C is a LOW DROP Voltage Regulator able to provide up to 5A of Output Current. Dropout is guaranteed at a maximum of 1.4V at the maximum output current, decreasing at lower loads. The device has been improved to be utilized in low voltage applications where transient response and minimum input voltage are critical. The most important feature of the device consist in lower dropout voltage and very fast transient

response. A 2.85V output version is suitable for SCSI-2 active termination. Unlike PNP regulators, where a part of the output current is wasted as quiescent current, the LD1585C quiescent current flows into the load, so increase efficiency. Only a 10 μ F minimum capacitor is need for stability. The device is supplied in TO-220, D²PAK and D²PAK/A. On chip trimming allows the regulator to reach a very tight output voltage tolerance, within $\pm 1\%$ at 25°C.

SCHEMATIC DIAGRAM



LD1585C SERIES

ABSOLUTE MAXIMUM RATINGS

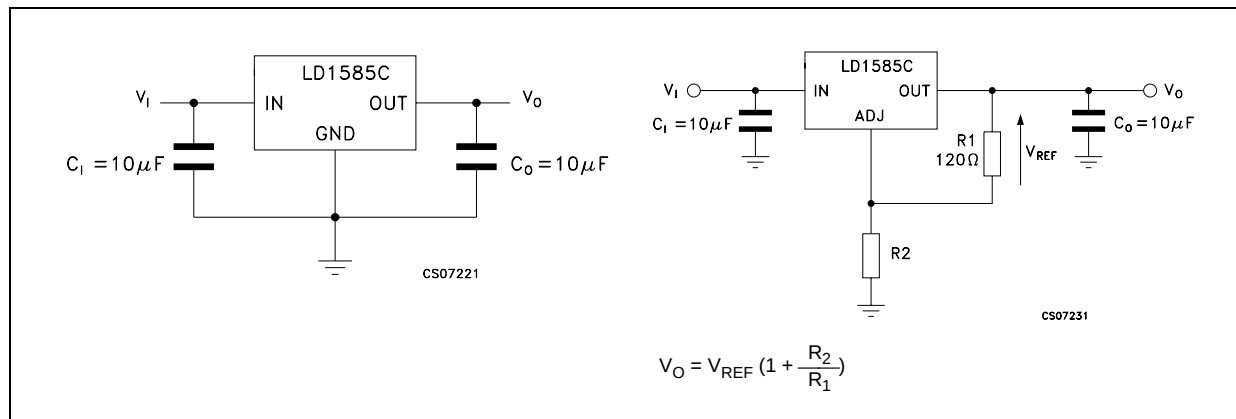
Symbol	Parameter ²	Value	Unit
V _I	DC Input Voltage	30	V
I _O	Output Current	Internally Limited	mA
P _D	Power Dissipation	Internally Limited	mW
T _{stg}	Storage Temperature Range	-55 to +150	°C
T _{op}	Operating Junction Temperature Range	0 to +125	°C

Absolute Maximum Ratings are those values beyond which damage to the device may occur. Functional operation under these condition is not implied.

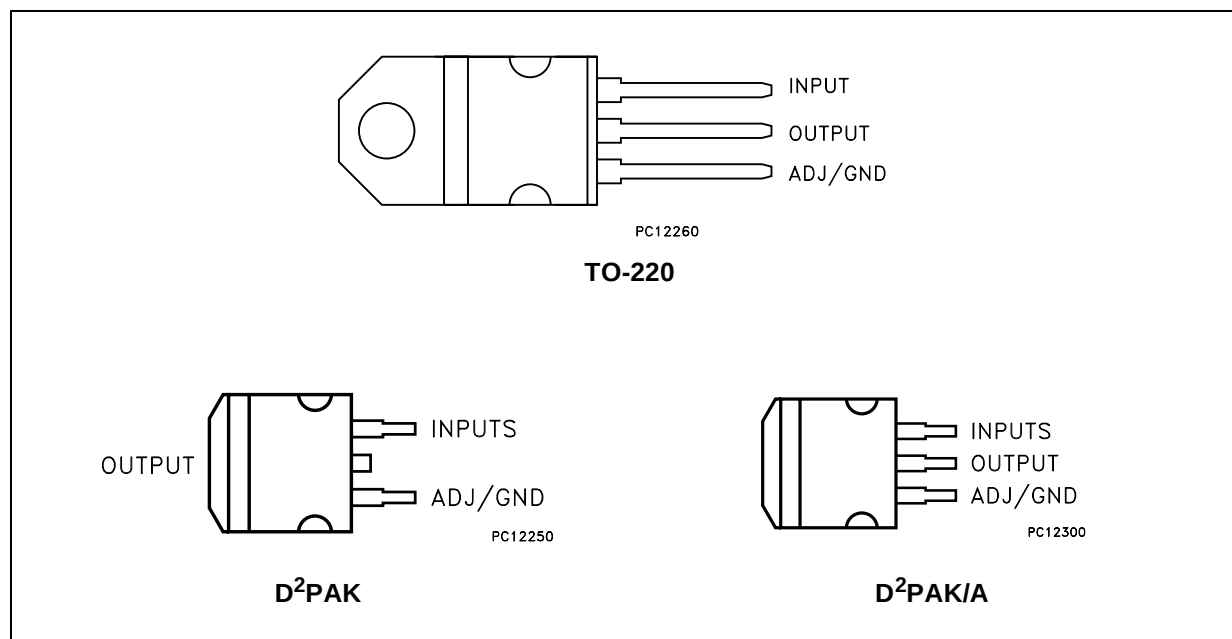
THERMAL DATA

Symbol	Parameter	TO-220	D ² PAK	Unit
R _{thj-case}	Thermal Resistance Junction-case	3	3	°C/W
R _{thj-amb}	Thermal Resistance Junction-ambient	50	62.5	°C/W

APPLICATION CIRCUITS



CONNECTION DIAGRAM (top view)



ORDERING CODES

TO-220	D²PAK (*)	D²PAK/A (*)	OUTPUT VOLTAGE
LD1585CV15	LD1585CD2T15	LD1585CD2M15	1.5 V
LD1585CV18	LD1585CD2T18	LD1585CD2M18	1.8 V
LD1585CV25	LD1585CD2T25	LD1585CD2M25	2.5 V
LD1585CV28	LD1585CD2T28	LD1585CD2M28	2.85 V
LD1585CV33	LD1585CD2T33	LD1585CD2M33	3.3 V
LD1585CV50	LD1585CD2T50	LD1585CD2M50	5.0 V
LD1585CV80	LD1585CD2T80	LD1585CD2M80	8.0 V
LD1585CV90	LD1585CD2T90	LD1585CD2M90	9.0 V
LD1585CV12	LD1585CD2T120	LD1585CD2M120	12.0 V
LD1585CV	LD1585CD2T	LD1585CD2M	ADJ

(*) Available in Tape & Reel with the suffix "R" for fixed version and "-R" for adjustable version.

LD1585C SERIES

ELECTRICAL CHARACTERISTICS OF LD1585#15 ($V_I=4.5V$, $C_I = C_O = 10\mu F$, $T_J = 0$ to $125^\circ C$, unless otherwise specified.)

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V_O	Output Voltage	$I_O = 0$ mA $T_J = 25^\circ C$	1.485	1.5	1.515	V
		$I_O = 0$ to 5A $V_I = 3$ to 25V (note 1)	1.47	1.5	1.53	V
ΔV_O	Line Regulation	$I_O = 0$ mA $V_I = 3$ to 15V $T_J = 25^\circ C$		0.005	0.2	%
		$I_O = 0$ mA $V_I = 3$ to 15V		0.005	0.2	%
ΔV_O	Load Regulation	$I_O = 0$ to 5A $T_J = 25^\circ C$		0.05	0.3	%
		$I_O = 0$ to 5A		0.05	0.5	%
V_d	Dropout Voltage	$I_O = 5$ A		1.2	1.4	V
I_q	Quiescent Current	$V_I \leq 25V$		5	10	mA
I_{sc}	Short Circuit Current	$V_I - V_O = 5V$	5.5	7		A
	Thermal Regulation	$T_J = 25^\circ C$, 30ms pulse		0.004	0.02	%/W
SVR	Supply Voltage Rejection	$f = 120$ Hz, $C_O = 25 \mu F$, $I_O = 5A$ $V_I - V_O = 3 \pm 1V$	60	75		dB
eN	RMS Output Noise Voltage (% of V_O)	$T_J = 25^\circ C$ $f = 10Hz$ to $10KHz$		0.003		%
S	Temperature Stability			0.5		%
S	Long Term Stability	$T_J = 125^\circ C$ 1000Hrs		0.03	1	%

NOTE 1: See short-circuit current curve for available output current at fixed dropout.

ELECTRICAL CHARACTERISTICS OF LD1585#18 ($V_I=4.8V$, $C_I = C_O = 10\mu F$, $T_J = 0$ to $125^\circ C$, unless otherwise specified.)

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V_O	Output Voltage	$I_O = 0$ mA $T_J = 25^\circ C$	1.782	1.8	1.818	V
		$I_O = 0$ to 5A $V_I = 3.3$ to 25V (note 1)	1.764	1.8	1.836	V
ΔV_O	Line Regulation	$I_O = 0$ mA $V_I = 3.3$ to 15V $T_J = 25^\circ C$		0.005	0.2	mV
		$I_O = 0$ mA $V_I = 3.3$ to 15V		0.005	0.2	mV
ΔV_O	Load Regulation	$I_O = 0$ to 5A $T_J = 25^\circ C$		0.05	0.3	mV
		$I_O = 0$ to 5A		0.05	0.5	V
V_d	Dropout Voltage	$I_O = 5$ A		1.2	1.4	V
I_q	Quiescent Current	$V_I \leq 25V$		5	10	mA
I_{sc}	Short Circuit Current	$V_I - V_O = 5.5V$	5.5	7		A
	Thermal Regulation	$T_J = 25^\circ C$, 30ms pulse		0.004	0.02	%/W
SVR	Supply Voltage Rejection	$f = 120$ Hz, $C_O = 25 \mu F$, $I_O = 5A$ $V_I - V_O = 3 \pm 1V$	60	75		dB
eN	RMS Output Noise Voltage (% of V_O)	$T_J = 25^\circ C$ $f = 10Hz$ to $10KHz$		0.003		%
S	Temperature Stability			0.5		%
S	Long Term Stability	$T_J = 125^\circ C$ 1000Hrs		0.03	1	%

NOTE 1: See short-circuit current curve for available output current at fixed dropout.

ELECTRICAL CHARACTERISTICS OF LD1585#25 ($V_I=5.5V$, $C_I = C_O = 10\mu F$, $T_J = 0$ to $125^\circ C$, unless otherwise specified.)

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V_O	Output Voltage	$I_O = 0$ mA $T_J = 25^\circ C$	2.475	2.5	2.525	V
		$I_O = 0$ to 5A $V_I = 4$ to 25V (note 1)	2.45	2.5	2.55	V
ΔV_O	Line Regulation	$I_O = 0$ mA $V_I = 4$ to 16V $T_J = 25^\circ C$		0.005	0.2	mV
		$I_O = 0$ mA $V_I = 4$ to 16V		0.005	0.2	mV
ΔV_O	Load Regulation	$I_O = 0$ to 5A $T_J = 25^\circ C$		0.05	0.3	mV
		$I_O = 0$ to 5A		0.05	0.5	V
V_d	Dropout Voltage	$I_O = 5$ A		1.2	1.4	V
I_q	Quiescent Current	$V_I \leq 25V$		5	10	mA
I_{sc}	Short Circuit Current	$V_I - V_O = 5.5V$	5.5	7		A
	Thermal Regulation	$T_J = 25^\circ C$, 30ms pulse		0.004	0.02	%/W
SVR	Supply Voltage Rejection	$f = 120$ Hz, $C_O = 25 \mu F$, $I_O = 5A$ $V_I - V_O = 3 \pm 1V$	60	75		dB
eN	RMS Output Noise Voltage (% of V_O)	$T_J = 25^\circ C$ $f = 10Hz$ to $10KHz$		0.003		%
S	Temperature Stability			0.5		%
S	Long Term Stability	$T_J = 125^\circ C$ 1000Hrs		0.03	1	%

NOTE 1: See short-circuit current curve for available output current at fixed dropout.

ELECTRICAL CHARACTERISTICS OF LD1585#285 ($V_I=5.85V$, $C_I = C_O = 10\mu F$, $T_J = 0$ to $125^\circ C$, unless otherwise specified.)

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V_O	Output Voltage	$I_O = 0$ mA $T_J = 25^\circ C$	2.821	2.85	2.879	V
		$I_O = 0$ to 5A $V_I = 4.5$ to 30V (note 1)	2.793	2.85	2.907	V
ΔV_O	Line Regulation	$I_O = 0$ mA $V_I = 4.5$ to 18V $T_J = 25^\circ C$		0.005	0.2	mV
		$I_O = 0$ mA $V_I = 4.5$ to 18V		0.005	0.2	mV
ΔV_O	Load Regulation	$I_O = 0$ to 5A $T_J = 25^\circ C$		0.05	0.3	mV
		$I_O = 0$ to 5A		0.05	0.5	V
V_d	Dropout Voltage	$I_O = 5$ A		1.2	1.4	V
I_q	Quiescent Current	$V_I \leq 25V$		5	10	mA
I_{sc}	Short Circuit Current	$V_I - V_O = 5.5V$	5.5	7		A
	Thermal Regulation	$T_J = 25^\circ C$, 30ms pulse		0.004	0.02	%/W
SVR	Supply Voltage Rejection	$f = 120$ Hz, $C_O = 25 \mu F$, $I_O = 5A$ $V_I - V_O = 3 \pm 1V$	60	75		dB
eN	RMS Output Noise Voltage (% of V_O)	$T_J = 25^\circ C$ $f = 10Hz$ to $10KHz$		0.003		%
S	Temperature Stability			0.5		%
S	Long Term Stability	$T_J = 125^\circ C$ 1000Hrs		0.03	1	%

NOTE 1: See short-circuit current curve for available output current at fixed dropout.

LD1585C SERIES

ELECTRICAL CHARACTERISTICS OF LD1585#33 ($V_I=6.3V$, $C_I = C_O = 10\mu F$, $T_J = 0$ to $125^\circ C$, unless otherwise specified.)

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V_O	Output Voltage	$I_O = 0$ mA $T_J = 25^\circ C$	3.267	3.3	3.333	V
		$I_O = 0$ to 5A $V_I = 4.8$ to 25V (note 1)	3.234	3.35	3.366	V
ΔV_O	Line Regulation	$I_O = 0$ mA $V_I = 4.8$ to 18V $T_J = 25^\circ C$		0.005	0.2	mV
		$I_O = 0$ mA $V_I = 4.9$ to 18V		0.005	0.2	mV
ΔV_O	Load Regulation	$I_O = 0$ to 5A $T_J = 25^\circ C$		0.05	0.3	mV
		$I_O = 0$ to 5A		0.05	0.5	V
V_d	Dropout Voltage	$I_O = 5$ A		1.2	1.4	V
I_q	Quiescent Current	$V_I \leq 25V$		5	10	mA
I_{sc}	Short Circuit Current	$V_I - V_O = 5.5V$	5.5	7		A
	Thermal Regulation	$T_J = 25^\circ C$, 30ms pulse		0.004	0.02	%/W
SVR	Supply Voltage Rejection	$f = 120$ Hz, $C_O = 25 \mu F$, $I_O = 5A$ $V_I - V_O = 3 \pm 1V$	60	75		dB
eN	RMS Output Noise Voltage (% of V_O)	$T_J = 25^\circ C$ $f = 10Hz$ to 10KHz		0.003		%
S	Temperature Stability			0.5		%
S	Long Term Stability	$T_J = 125^\circ C$ 1000Hrs		0.03	1	%

NOTE 1: See short-circuit current curve for available output current at fixed dropout.

ELECTRICAL CHARACTERISTICS OF LD1585#50 ($V_I=8V$, $C_I = C_O = 10\mu F$, $T_J = 0$ to $125^\circ C$, unless otherwise specified.)

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V_O	Output Voltage	$I_O = 0$ mA $T_J = 25^\circ C$	4.95	5	5.05	V
		$I_O = 0$ to 5A $V_I = 6.5$ to 30V (note 1)	4.9	5	5.1	V
ΔV_O	Line Regulation	$I_O = 0$ mA $V_I = 6.5$ to 20V $T_J = 25^\circ C$		0.005	0.2	mV
		$I_O = 0$ mA $V_I = 6.5$ to 20V		0.005	0.2	mV
ΔV_O	Load Regulation	$I_O = 0$ to 5A $T_J = 25^\circ C$		0.05	0.3	mV
		$I_O = 0$ to 5A		0.05	0.5	V
V_d	Dropout Voltage	$I_O = 5$ A		1.2	1.4	V
I_q	Quiescent Current	$V_I \leq 25V$		5	10	mA
I_{sc}	Short Circuit Current	$V_I - V_O = 5.5V$	5.5	7		A
	Thermal Regulation	$T_J = 25^\circ C$, 30ms pulse		0.004	0.02	%/W
SVR	Supply Voltage Rejection	$f = 120$ Hz, $C_O = 25 \mu F$, $I_O = 5A$ $V_I - V_O = 3 \pm 1V$	60	75		dB
eN	RMS Output Noise Voltage (% of V_O)	$T_J = 25^\circ C$ $f = 10Hz$ to 10KHz		0.003		%
S	Temperature Stability			0.5		%
S	Long Term Stability	$T_J = 125^\circ C$ 1000Hrs		0.03	1	%

NOTE 1: See short-circuit current curve for available output current at fixed dropout.

ELECTRICAL CHARACTERISTICS OF LD1585#80 ($V_I=11V$, $C_I = C_O = 10\mu F$, $T_J = 0$ to $125^\circ C$, unless otherwise specified.)

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V_O	Output Voltage	$I_O = 0 \text{ mA}$ $T_J = 25^\circ C$	7.92	8	8.08	V
		$I_O = 0$ to $5A$ $V_I = 9.5$ to $30V$ (note 1)	7.84	8	8.16	V
ΔV_O	Line Regulation	$I_O = 0 \text{ mA}$ $V_I = 9.5$ to $20V$ $T_J = 25^\circ C$		0.005	0.2	mV
		$I_O = 0 \text{ mA}$ $V_I = 9.5$ to $20V$		0.005	0.2	mV
ΔV_O	Load Regulation	$I_O = 0$ to $5A$ $T_J = 25^\circ C$		0.05	0.3	mV
		$I_O = 0$ to $5A$		0.05	0.5	V
V_d	Dropout Voltage	$I_O = 5A$		1.2	1.4	V
I_q	Quiescent Current	$V_I \leq 25V$		5	10	mA
I_{sc}	Short Circuit Current	$V_I - V_O = 5.5V$	5.5	7		A
	Thermal Regulation	$T_J = 25^\circ C$, 30ms pulse		0.004	0.02	%/W
SVR	Supply Voltage Rejection	$f = 120 \text{ Hz}$, $C_O = 25 \mu F$, $I_O = 5A$ $V_I - V_O = 3 \pm 1V$	60	75		dB
eN	RMS Output Noise Voltage (% of V_O)	$T_J = 25^\circ C$ $f = 10\text{Hz}$ to 10KHz		0.003		%
S	Temperature Stability			0.5		%
S	Long Term Stability	$T_J = 125^\circ C$ 1000Hrs		0.03	1	%

NOTE 1: See short-circuit current curve for available output current at fixed dropout.

ELECTRICAL CHARACTERISTICS OF LD1585#90 ($V_I=12V$, $C_I = C_O = 10\mu F$, $T_J = 0$ to $125^\circ C$, unless otherwise specified.)

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V_O	Output Voltage	$I_O = 0 \text{ mA}$ $T_J = 25^\circ C$	8.91	9	9.09	V
		$I_O = 0$ to $5A$ $V_I = 10.5$ to $30V$ (note 1)	8.82	9	9.18	V
ΔV_O	Line Regulation	$I_O = 0 \text{ mA}$ $V_I = 10.5$ to $20V$ $T_J = 25^\circ C$		0.005	0.2	mV
		$I_O = 0 \text{ mA}$ $V_I = 10.5$ to $20V$		0.005	0.2	mV
ΔV_O	Load Regulation	$I_O = 0$ to $5A$ $T_J = 25^\circ C$		0.05	0.3	mV
		$I_O = 0$ to $5A$		0.05	0.5	V
V_d	Dropout Voltage	$I_O = 5A$		1.2	1.4	V
I_q	Quiescent Current	$V_I \leq 25V$		5	10	mA
I_{sc}	Short Circuit Current	$V_I - V_O = 5.5V$	5.5	7		A
	Thermal Regulation	$T_J = 25^\circ C$, 30ms pulse		0.004	0.02	%/W
SVR	Supply Voltage Rejection	$f = 120 \text{ Hz}$, $C_O = 25 \mu F$, $I_O = 5A$ $V_I - V_O = 3 \pm 1V$	60	75		dB
eN	RMS Output Noise Voltage (% of V_O)	$T_J = 25^\circ C$ $f = 10\text{Hz}$ to 10KHz		0.003		%
S	Temperature Stability			0.5		%
S	Long Term Stability	$T_J = 125^\circ C$ 1000Hrs		0.03	1	%

NOTE 1: See short-circuit current curve for available output current at fixed dropout.

LD1585C SERIES

ELECTRICAL CHARACTERISTICS OF LD1585#120 ($V_I=15V$, $C_I = C_O = 10\mu F$, $T_J = 0$ to $125^\circ C$, unless otherwise specified.)

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V_O	Output Voltage	$I_O = 0$ mA $T_J = 25^\circ C$	11.88	12	12.12	V
		$I_O = 0$ to 5A $V_I = 13.5$ to 30V (note 1)	11.76	12	12.24	V
ΔV_O	Line Regulation	$I_O = 0$ mA $V_I = 13.5$ to 25V $T_J = 25^\circ C$		0.005	0.2	mV
		$I_O = 0$ mA $V_I = 13.5$ to 25V		0.005	0.2	mV
ΔV_O	Load Regulation	$I_O = 0$ to 5A $T_J = 25^\circ C$		0.05	0.3	mV
		$I_O = 0$ to 5A		0.05	0.5	V
V_d	Dropout Voltage	$I_O = 5$ A		1.2	1.4	V
I_q	Quiescent Current	$V_I \leq 25V$		5	10	mA
I_{sc}	Short Circuit Current	$V_I - V_O = 5.5V$	5.5	7		A
	Thermal Regulation	$T_J = 25^\circ C$, 30ms pulse		0.004	0.02	%/W
SVR	Supply Voltage Rejection	$f = 120$ Hz, $C_O = 25 \mu F$, $I_O = 5A$ $V_I - V_O = 3 \pm 1V$	60	75		dB
eN	RMS Output Noise Voltage (% of V_O)	$T_J = 25^\circ C$ $f = 10Hz$ to 10KHz		0.003		%
S	Temperature Stability			0.5		%
S	Long Term Stability	$T_J = 125^\circ C$ 1000Hrs		0.03	1	%

NOTE 1: See short-circuit current curve for available output current at fixed dropout.

ELECTRICAL CHARACTERISTICS OF LD1585# ($V_I=4.25V$, $C_I = C_O = 10\mu F$, $T_J = 0$ to $125^\circ C$, unless otherwise specified.)

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V_O	Output Voltage	$I_O = 10mA$ $V_I - V_O = 3V$ $T_J = 25^\circ C$	1.237	1.25	1.263	V
		$I_O = 10mA$ to 5A $V_I - V_O = 1.5$ to 25V (note 1)	1.225	1.25	1.275	V
ΔV_O	Line Regulation	$I_O = 10mA$ $V_I = 2.75$ to 15V $T_J = 25^\circ C$		0.015	0.2	%
		$I_O = 10mA$ $V_I = 2.75$ to 15V		0.1	0.2	%
ΔV_O	Load Regulation	$I_O = 10mA$ to 5A $T_J = 25^\circ C$		0.1	0.3	%
		$I_O = 0$ to 5A		0.25	0.5	%
V_d	Dropout Voltage	$I_O = 5A$		1.2	1.4	V
$I_{O(min)}$	Minimum Load Current	$V_I = 25V$		3	10	mA
I_{sc}	Short Circuit Current	$V_I - V_O = 5.5V$	5.5	7		A
	Thermal Regulation	$T_J = 25^\circ C$, 30ms pulse		0.004	0.02	%/W
SVR	Supply Voltage Rejection	$f = 120$ Hz, $C_O = 25 \mu F$, $C_{ADJ} = 25 \mu F$, $I_O = 5A$ $V_I - V_O = 3 \pm 1V$	60	75		dB
I_{ADJ}	Adjust Pin Current	$I_O = 10$ mA		50	100	μA
ΔI_{ADJ}	Adjust Pin Current Change	$I_O = 10mA$ to 5A $V_I = 3$ to 25V (note 1)		0.2	5	μA
eN	RMS Output Noise Voltage (% of V_O)	$T_J = 25^\circ C$ $f = 10Hz$ to 10KHz		0.003		%
S	Temperature Stability			0.5		%
S	Long Term Stability	$T_J = 125^\circ C$ 1000Hrs		0.5		%

NOTE 1: See short-circuit current curve for available output current at fixed dropout.

TYPICAL CHARACTERISTICS (unless otherwise specified $T_j = 25^\circ\text{C}$, $C_i=C_o=10\mu\text{F}$ tant)

Figure 1 : Output Voltage vs Temperature

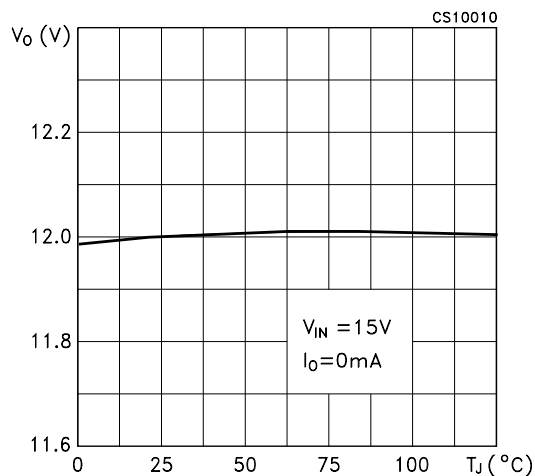


Figure 4 : Line Regulation vs Temperature

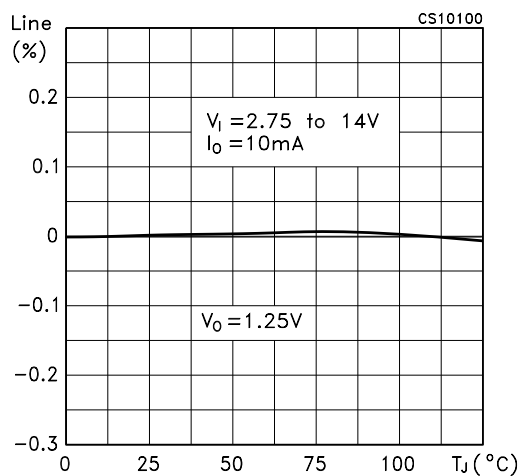


Figure 2 : Short Circuit Current vs Dropout Voltage

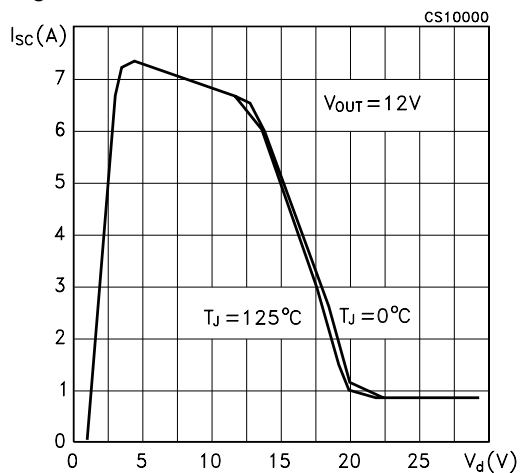


Figure 5 : Load Regulation vs Temperature

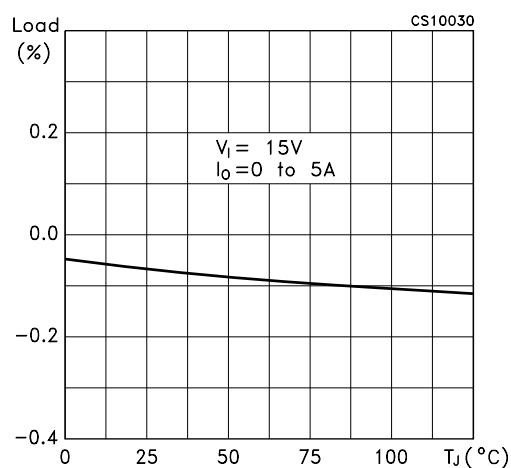


Figure 3 : Line Regulation vs Temperature

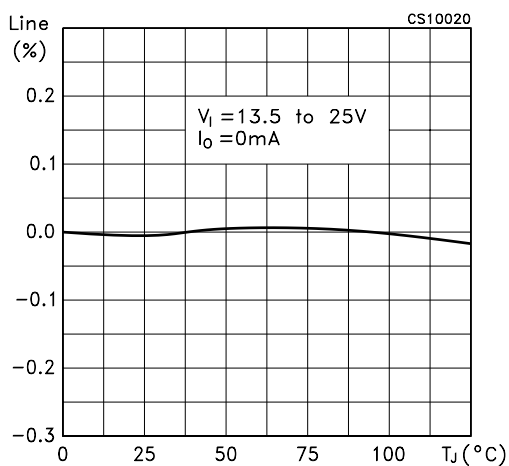


Figure 6 : Load Regulation vs Temperature

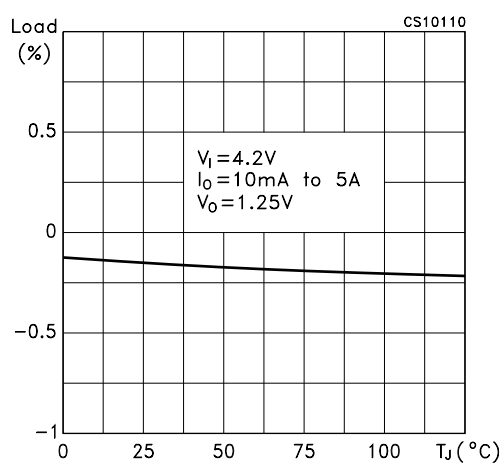


Figure 7 : Dropout Voltage vs Temperature

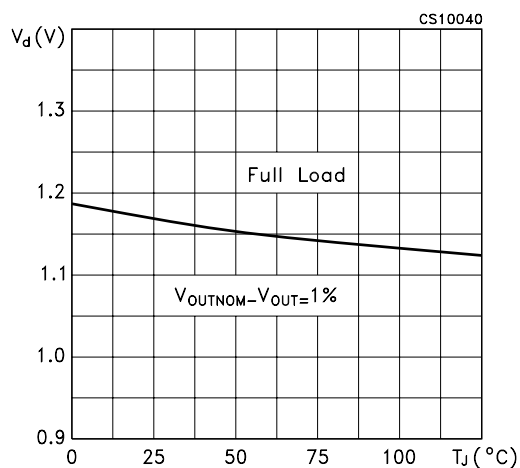


Figure 10 : Adjust Pin Current vs Temperature

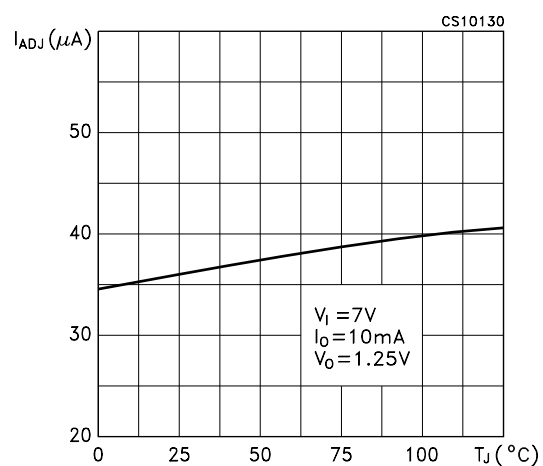


Figure 8 : Dropout Voltage vs Output Current

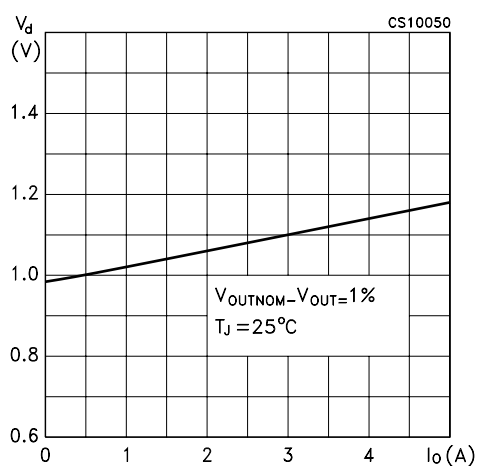


Figure 11 : Adjust Pin Current Change vs Temperature

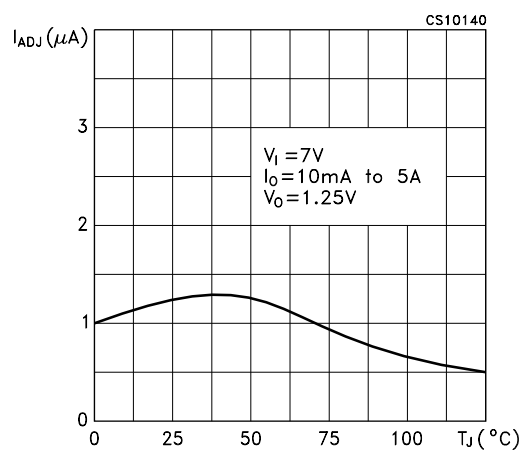


Figure 9 : Adjust Pin Current vs Input Voltage

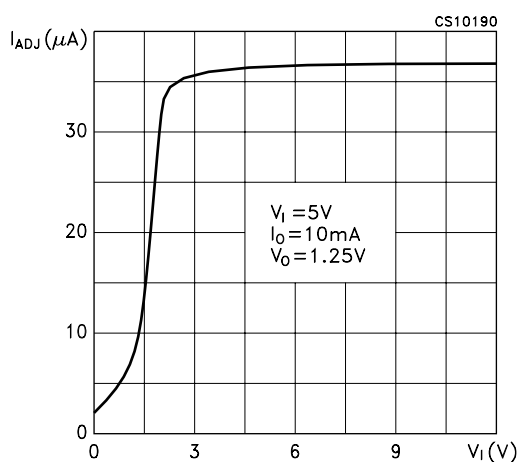


Figure 12 : Quiescent Current vs Temperature

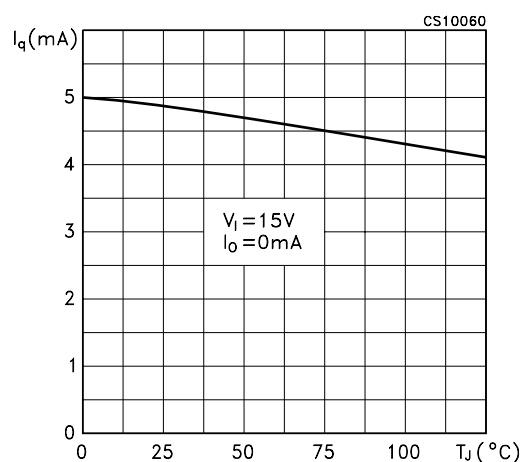


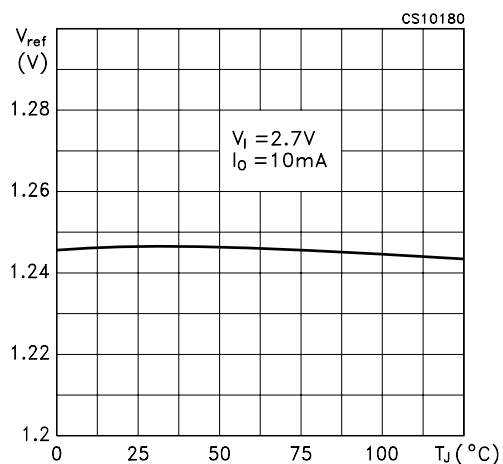
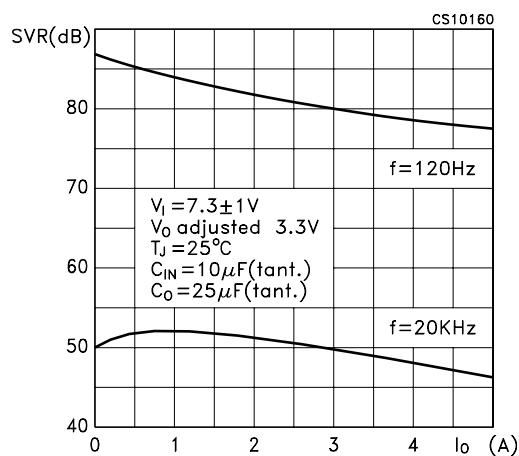
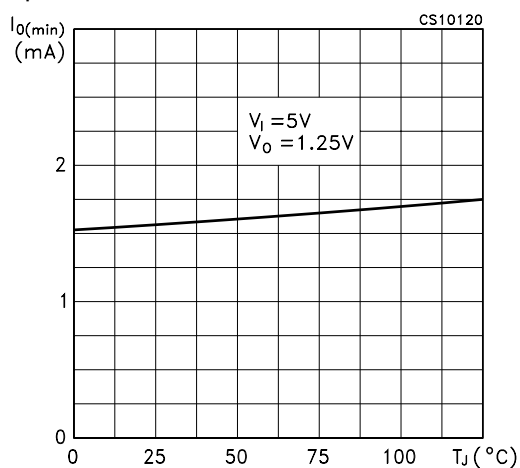
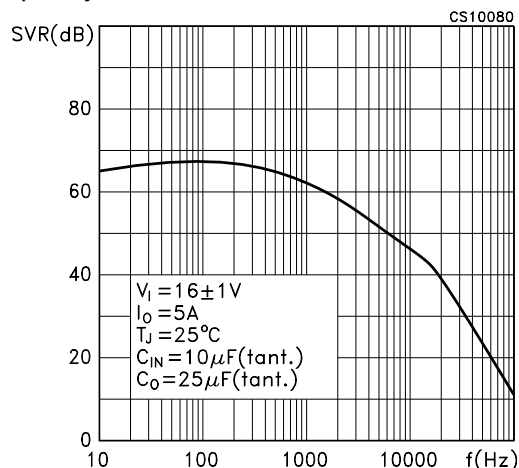
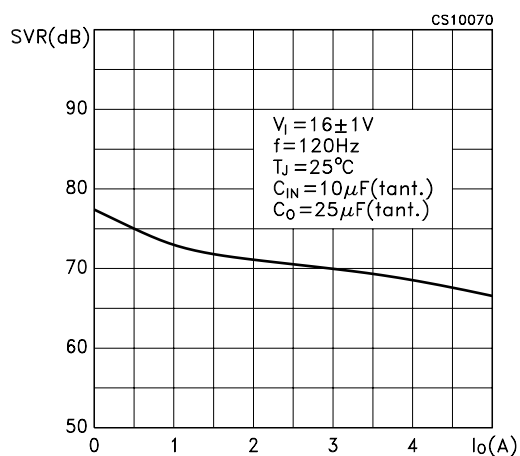
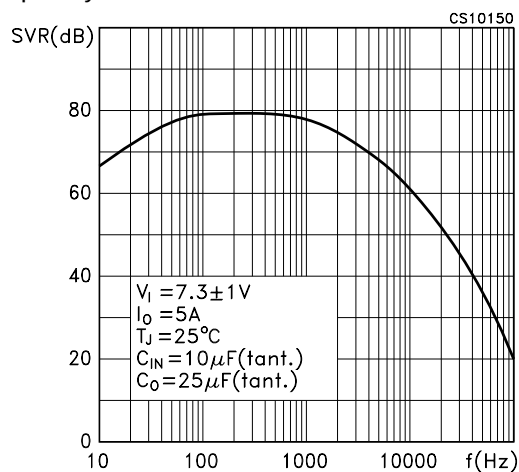
Figure 13 : Reference Voltage vs Temperature**Figure 16 : Supply Voltage Rejection vs Output Current****Figure 14 : Minimum Load Current vs Temperature****Figure 17 : Supply Voltage Rejection vs Frequency****Figure 15 : Supply Voltage Rejection vs Output Current****Figure 18 : Supply Voltage Rejection vs Frequency**

Figure 19 : Supply Voltage Rejection vs Temperature

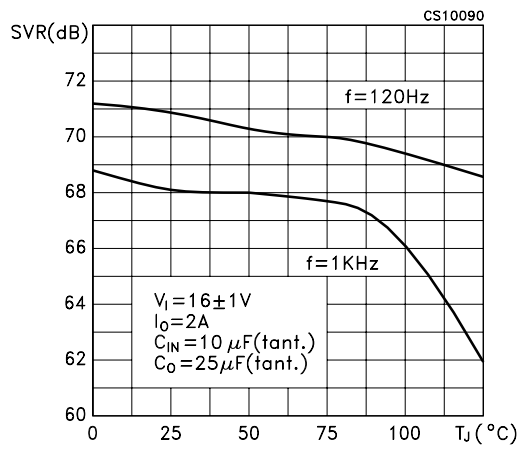


Figure 20 : Supply Voltage Rejection vs Temperature

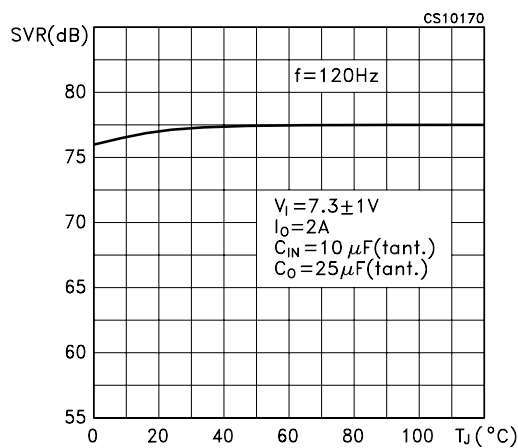


Figure 21 : Line Transient

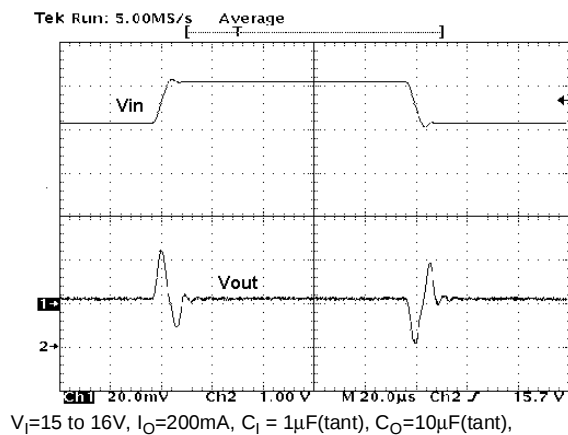


Figure 22 : Load Transient

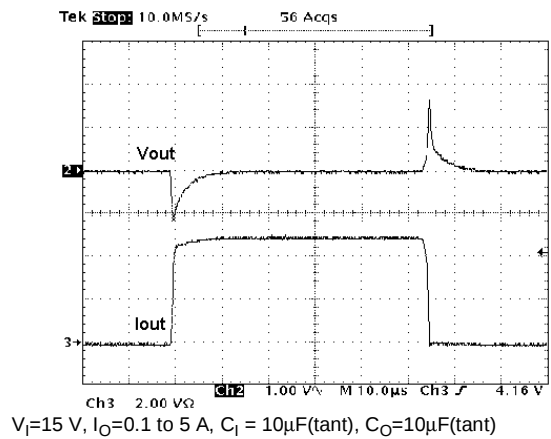
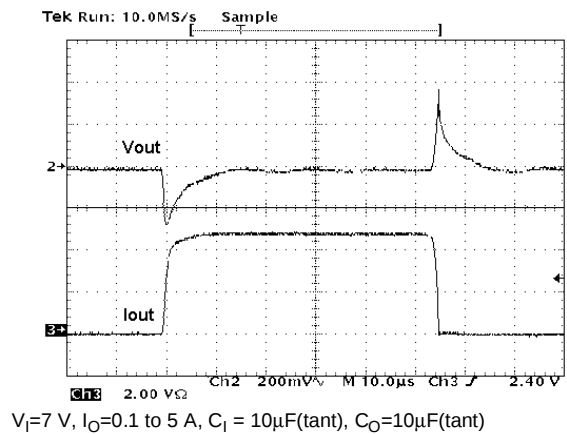
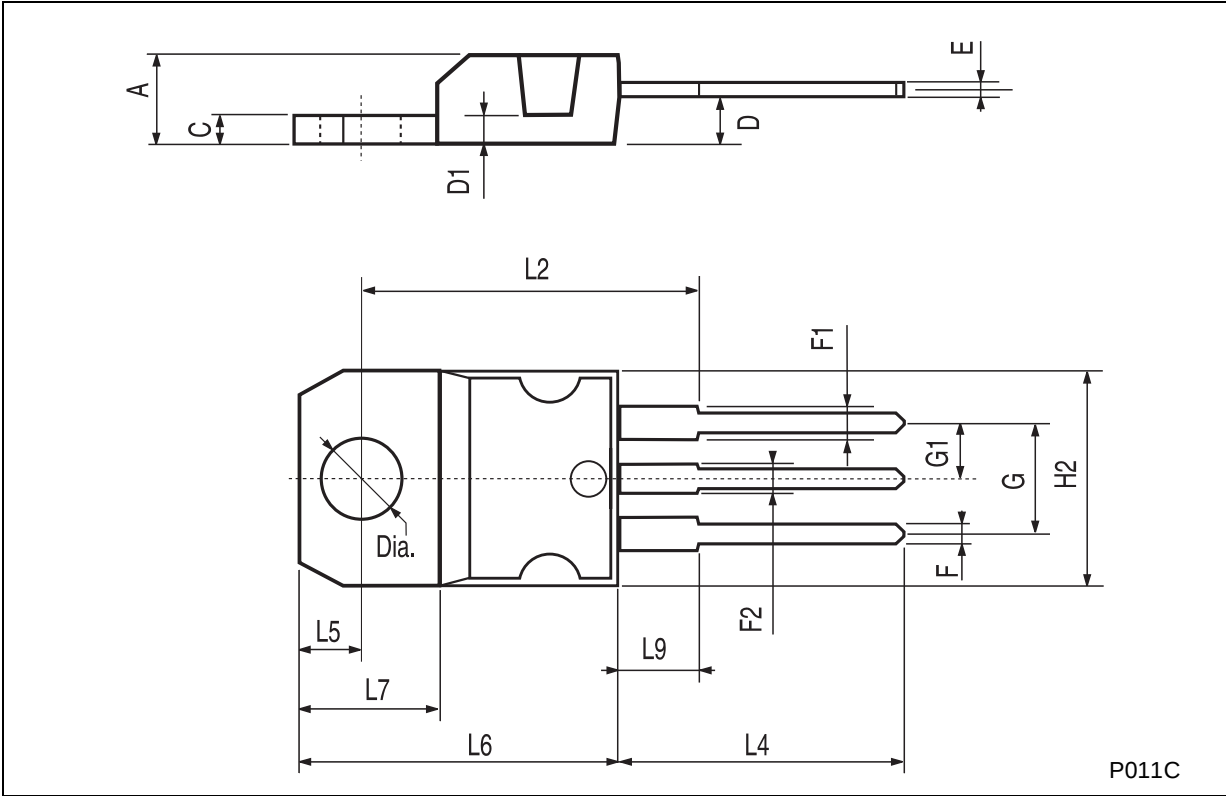


Figure 23 : Load Transient



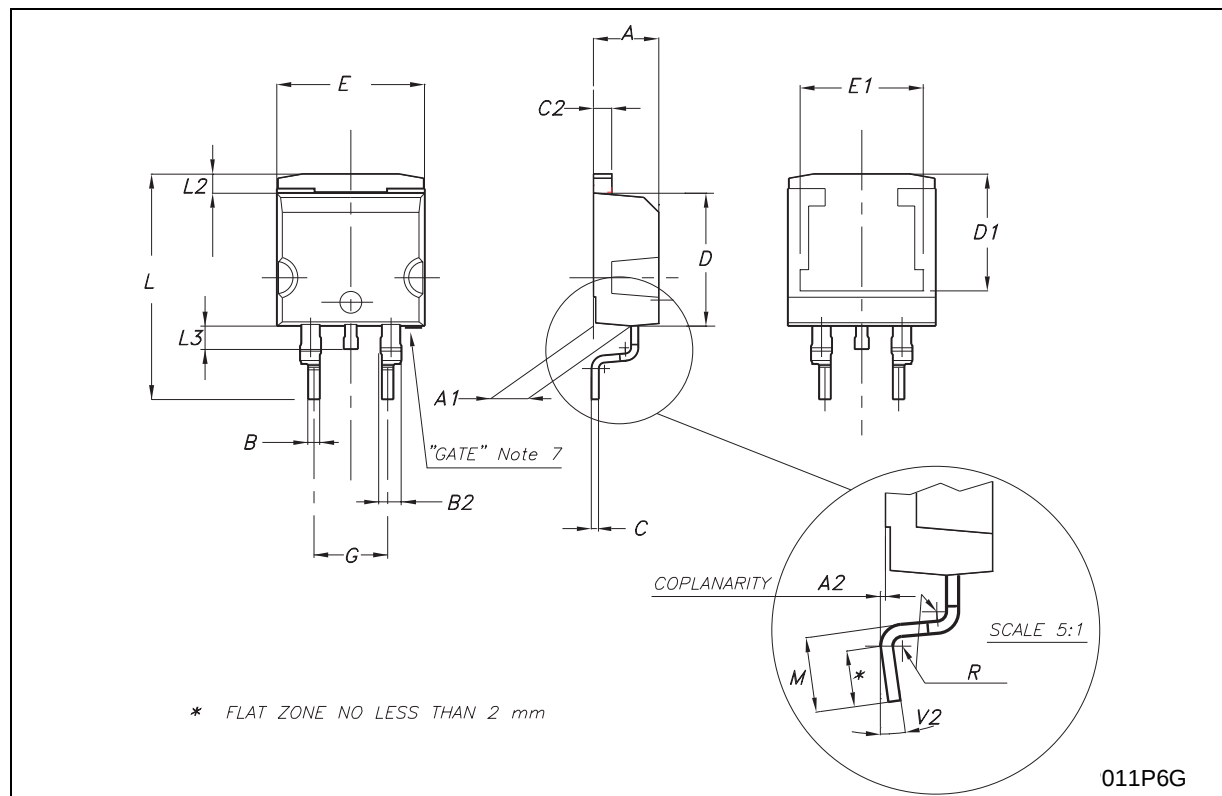
TO-220 MECHANICAL DATA

DIM.	mm.			inch		
	MIN.	TYP	MAX.	MIN.	TYP.	MAX.
A	4.40		4.60	0.173		0.181
C	1.23		1.32	0.048		0.051
D	2.40		2.72	0.094		0.107
D1		1.27			0.050	
E	0.49		0.70	0.019		0.027
F	0.61		0.88	0.024		0.034
F1	1.14		1.70	0.044		0.067
F2	1.14		1.70	0.044		0.067
G	4.95		5.15	0.194		0.203
G1	2.4		2.7	0.094		0.106
H2	10.0		10.40	0.393		0.409
L2		16.4			0.645	
L4	13.0		14.0	0.511		0.551
L5	2.65		2.95	0.104		0.116
L6	15.25		15.75	0.600		0.620
L7	6.2		6.6	0.244		0.260
L9	3.5		3.93	0.137		0.154
DIA.	3.75		3.85	0.147		0.151



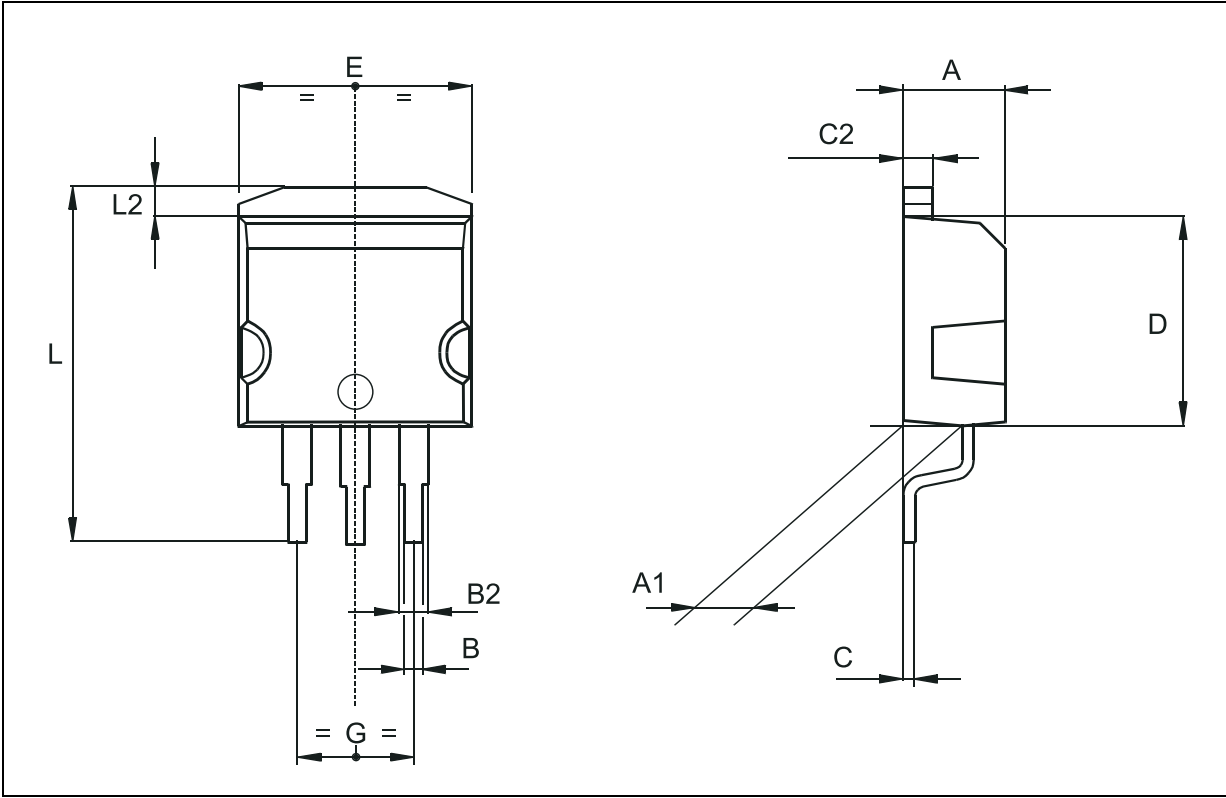
D²PAK MECHANICAL DATA

DIM.	mm.			inch		
	MIN.	TYP	MAX.	MIN.	TYP.	MAX.
A	4.4		4.6	0.173		0.181
A1	2.49		2.69	0.098		0.106
A2	0.03		0.23	0.001		0.009
B	0.7		0.93	0.027		0.036
B2	1.14		1.7	0.044		0.067
C	0.45		0.6	0.017		0.023
C2	1.23		1.36	0.048		0.053
D	8.95		9.35	0.352		0.368
D1		8			0.315	
E	10		10.4	0.393		0.409
E1		8.5			0.335	
G	4.88		5.28	0.192		0.208
L	15		15.85	0.590		0.624
L2	1.27		1.4	0.050		0.055
L3	1.4		1.75	0.055		0.068
M	2.4		3.2	0.094		0.126
R		0.4			0.016	
V2	0°		8°	0°		8°



D²PAK/A MECHANICAL DATA

DIM.	mm.			inch		
	MIN.	TYP	MAX.	MIN.	TYP.	MAX.
A	4.40		4.60	0.173		0.181
A1	2.49		2.69	0.098		0.106
B	0.7		0.93	0.027		0.036
B2	1.14		1.7	0.044		0.067
C	0.45		0.60	0.017		0.023
C2	1.21		1.36	0.047		0.053
D	8.95		9.35	0.352		0.368
E	10		10.4	0.393		0.409
G	4.88		5.28	0.192		0.208
L	15		15.85	0.590		0.106
L2	1.27		1.4	0.050		0.055



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