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The specifications for the **LT[®]1580I**, which are different from the LT1580C, are indicated in **bold** in the table below. For complete specifications, typical performance characteristics and applications information, please see the **LT1580** data sheet.

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ELECTRICAL CHARACTERISTICS $-40^{\circ}\text{C} \leq T_J \leq 0^{\circ}\text{C}$ unless otherwise noted.

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
Maximum Load Current		6.5			A
Output Voltage: LT1580-2.5	$V_{\text{CONTROL}} = 4\text{V to } 12\text{V}$, $V_{\text{POWER}} = 3.3\text{V to } 5.5\text{V}$, $I_{\text{LOAD}} = 10\text{mA to } 6.5\text{A}$, $V_{\text{ADJ}} = 0\text{V}$	2.46	2.50	2.525	V
Reference Voltage	$V_{\text{CONTROL}} = 2.7\text{V to } 12\text{V}$, $V_{\text{POWER}} = 2.05\text{V to } 5.5\text{V}$, $I_{\text{LOAD}} = 10\text{mA to } 6.5\text{A}$, $V_{\text{ADJ}} = 0\text{V}$	1.232	1.250	1.263	V
Control Pin Current: LT1580-2.5 (Note 1)	$V_{\text{CONTROL}} = 2.75\text{V}$, $V_{\text{POWER}} = 2.05\text{V}$, $I_{\text{LOAD}} = 100\text{mA}$ $V_{\text{CONTROL}} = 2.75\text{V}$, $V_{\text{POWER}} = 2.05\text{V}$, $I_{\text{LOAD}} = 4\text{A}$ $V_{\text{CONTROL}} = 2.75\text{V}$, $V_{\text{POWER}} = 1.75\text{V}$, $I_{\text{LOAD}} = 4\text{A}$ $V_{\text{CONTROL}} = 2.75\text{V}$, $V_{\text{POWER}} = 2.05\text{V}$, $I_{\text{LOAD}} = 6.5\text{A}$			12 70 80 130	 mA mA mA mA
Control Pin Current: LT1580 (Note 1)	$V_{\text{CONTROL}} = 2.75\text{V}$, $V_{\text{POWER}} = 2.05\text{V}$, $I_{\text{LOAD}} = 100\text{mA}$ $V_{\text{CONTROL}} = 2.75\text{V}$, $V_{\text{POWER}} = 2.05\text{V}$, $I_{\text{LOAD}} = 4\text{A}$ $V_{\text{CONTROL}} = 2.75\text{V}$, $V_{\text{POWER}} = 1.75\text{V}$, $I_{\text{LOAD}} = 4\text{A}$ $V_{\text{CONTROL}} = 2.75\text{V}$, $V_{\text{POWER}} = 2.05\text{V}$, $I_{\text{LOAD}} = 6.5\text{A}$			12 70 80 130	 mA mA mA mA
Current Limit: LT1580-2.5	$V_{\text{CONTROL}} = 5\text{V}$, $V_{\text{POWER}} = 3.3\text{V}$, $\Delta V_{\text{OUT}} = 100\text{mV}$	6.6			A
LT1580 ($V_{\text{ADJ}} = 0\text{V}$)	$V_{\text{CONTROL}} = 2.75\text{V}$, $V_{\text{POWER}} = 2.05\text{V}$, $\Delta V_{\text{OUT}} = 100\text{mV}$	6.6			A
Dropout Voltage (Note 2)					
Minimum V_{CONTROL} : LT1580-2.5 ($V_{\text{CONTROL}} - V_{\text{OUT}}$)	$V_{\text{POWER}} = 3.3\text{V}$, $I_{\text{LOAD}} = 100\text{mA}$ $V_{\text{POWER}} = 3.3\text{V}$, $I_{\text{LOAD}} = 1\text{A}$ $V_{\text{POWER}} = 3.3\text{V}$, $I_{\text{LOAD}} = 2.75\text{A}$ $V_{\text{POWER}} = 3.3\text{V}$, $I_{\text{LOAD}} = 4\text{A}$ $V_{\text{POWER}} = 3.3\text{V}$, $I_{\text{LOAD}} = 6.5\text{A}$			1.2 1.2 1.23 1.25 1.35	 V V V V V
Minimum V_{CONTROL} : LT1580 ($V_{\text{CONTROL}} - V_{\text{OUT}}$) ($V_{\text{ADJ}} = 0\text{V}$)	$V_{\text{POWER}} = 2.05\text{V}$, $I_{\text{LOAD}} = 100\text{mA}$ $V_{\text{POWER}} = 2.05\text{V}$, $I_{\text{LOAD}} = 1\text{A}$ $V_{\text{POWER}} = 2.05\text{V}$, $I_{\text{LOAD}} = 2.75\text{A}$ $V_{\text{POWER}} = 2.05\text{V}$, $I_{\text{LOAD}} = 4\text{A}$ $V_{\text{POWER}} = 2.05\text{V}$, $I_{\text{LOAD}} = 6.5\text{A}$			1.2 1.2 1.23 1.25 1.35	 V V V V V

Note 1: The control pin current is the drive current required for the output transistor. This current will track output current with roughly a 1:100 ratio. The minimum value is equal to the quiescent current of the device.

Note 2: For the LT1580, dropout is caused by either minimum control voltage (V_{CONTROL}) or minimum power voltage (V_{POWER}). Both parameters are specified with respect to the output voltage. The specifications represent the minimum input/output voltage required to maintain 1% regulation.

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