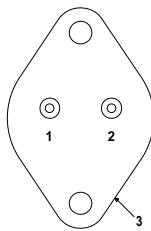




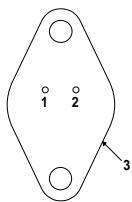
**SEME  
LAB**

**IP140A SERIES**  
**IP140 SERIES**  
**IP7800A SERIES**  
**IP7800 SERIES**  
**LM140 SERIES**



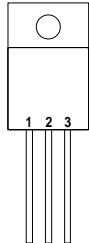
Pin 1 –  $V_{IN}$   
Pin 2 –  $V_{OUT}$   
Case – Ground

**K Package – TO-3**



Pin 1 –  $V_{IN}$   
Pin 2 –  $V_{OUT}$   
Case – Ground

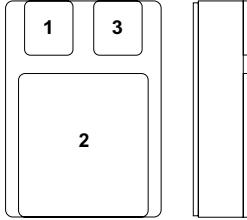
**R Package – TO-66**



Pin 1 –  $V_{IN}$   
Pin 2 – Ground  
Pin 3 –  $V_{OUT}$   
Case – Ground\*

**G Package – TO-257**  
**IG Package – TO-257\***

\* isolated Case on IG package



Pin 1 –  $V_{IN}$   
Pin 2 – Ground  
Pin 3 –  $V_{OUT}$

**SMD 1 PACKAGE**  
Ceramic Surface Mount

## 1 AMP POSITIVE VOLTAGE REGULATOR

### FEATURES

- OUTPUT CURRENT UP TO 1.0A
- OUTPUT VOLTAGES OF 5, 12, 15V
- 0.01% / V LINE REGULATION
- 0.3% / A LOAD REGULATION
- THERMAL OVERLOAD PROTECTION
- SHORT CIRCUIT PROTECTION
- OUTPUT TRANSISTOR SOA PROTECTION
- 1% VOLTAGE TOLERANCE (-A VERSIONS)

### DESCRIPTION

The IP140A / LM140 / IP7800A / IP7800 series of 3 terminal regulators is available with several fixed output voltage making them useful in a wide range of applications.

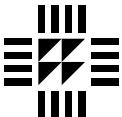
The A suffix devices are fully specified at 1A, provide 0.01% / V line regulation, 0.3% / A load regulation and  $\pm 1\%$  output voltage tolerance at room temperature.

Protection features include Safe Operating Area current limiting and thermal shutdown.

### ABSOLUTE MAXIMUM RATINGS ( $T_{case} = 25^\circ C$ unless otherwise stated)

$V_I$	DC Input Voltage (for $V_O = 5, 12, 15V$ )	35V
$P_D$	Power Dissipation	Internally limited <sup>1</sup>
$T_j$	Operating Junction Temperature Range	-55 to 150°C
$T_{stg}$	Storage Temperature	-65 to 150°C

Note 1. Although power dissipation is internally limited, these specifications are applicable for maximum power dissipation  $P_{MAX}$  of 20W.  $I_{MAX} = 1.0A$ .

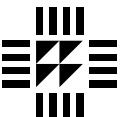


**SEME  
LAB**

**IP140A SERIES**  
**IP140 SERIES**  
**IP7800A SERIES**  
**IP7800 SERIES**  
**LM140 SERIES**

Parameter	Test Conditions	IP7805A IP140A-05			IP7805 IP140A-05			Units
		Min.	Typ.	Max.	Min.	Typ.	Max.	
V <sub>O</sub> Output Voltage	I <sub>O</sub> = 1A V <sub>IN</sub> = 10V	4.95	5	5.05	4.8	5	5.2	V
	I <sub>O</sub> = 5mA to I <sub>MAX</sub> V <sub>IN</sub> = 7.5V to 20V	4.85		5.15	4.75		5.25	
V <sub>O</sub> Low Supply	I <sub>O</sub> = 5mA to I <sub>MAX</sub> V <sub>IN</sub> = 7V to 20V	4.75		5.15	4.75		5.25	V
ΔV <sub>O</sub> Line Regulation	I <sub>O</sub> = 0.5 I <sub>MAX</sub>	V <sub>IN</sub> = 7V to 25V	3	10			50	mV
		V <sub>IN</sub> = 7.5V to 25V T <sub>J</sub> = -55 to 150°C	3	10			50	
	I <sub>O</sub> ≤ I <sub>MAX</sub>	V <sub>IN</sub> = 7.3V to 20V	3	10			50	
	V <sub>IN</sub> = 8V to 12V		1	4			20	
	T <sub>J</sub> = -55 to 150°C		2	12			25	
ΔV <sub>O</sub> Load Regulation	V <sub>IN</sub> = 10V	I <sub>O</sub> = 5mA to 1.5A	10	25			50	mV
		I <sub>O</sub> = 250mA to 750mA	4	15			25	
	V <sub>IN</sub> = 10V	I <sub>O</sub> = 5mA to I <sub>MAX</sub> T <sub>J</sub> = -55 to 150°C	7	25			50	
I <sub>Q</sub> Quiescent Current	I <sub>O</sub> ≤ I <sub>MAX</sub> V <sub>IN</sub> = 10V	T <sub>J</sub> = -55 to 150°C	4	6			6	mA
ΔI <sub>Q</sub> Quiescent Current Change	I <sub>O</sub> = 5mA to I <sub>MAX</sub>	V <sub>IN</sub> = 10V	4	6.5			7	
	I <sub>O</sub> ≤ I <sub>MAX</sub>	V <sub>IN</sub> = 7.5V to 20V T <sub>J</sub> = -55 to 150°C	0.2	0.5			0.5	mA
	I <sub>O</sub> ≤ 0.5 I <sub>MAX</sub>	V <sub>IN</sub> = 8V to 25V	0.1	0.8			0.8	
	I <sub>O</sub> ≤ 0.5 I <sub>MAX</sub>	V <sub>IN</sub> = 7V to 25V T <sub>J</sub> = -55 to 150°C	0.2	1			1.0	
V <sub>N</sub> Output Noise Voltage	f = 10Hz to 100kHz V <sub>IN</sub> = 10V		40	200			40	μV
ΔV <sub>IN</sub> ΔV <sub>O</sub> Ripple Rejection	f = 120Hz V <sub>IN</sub> = 8V to 18V	I <sub>O</sub> ≤ I <sub>MAX</sub>	68	80			68	dB
		I <sub>O</sub> ≤ 0.5 I <sub>MAX</sub> T <sub>J</sub> = -55 to 150°C	68	80			68	
Dropout Voltage	I <sub>O</sub> = I <sub>MAX</sub>		2	2.5			2	V
R <sub>O</sub> Output Resistance	f = 1 kHz		5				5	mΩ
I <sub>sc</sub> Short Circuit Current	V <sub>IN</sub> = 35V		0.6	1.2			0.6	1.2
I <sub>pk</sub> Peak Output Current	V <sub>IN</sub> = 10V		2.4	3.3			2.4	3.3
Average Temperature Coefficient of V <sub>O</sub>	I <sub>O</sub> = 5mA		0.2	2			0.6	mV /°C
Input Voltage required to maintain line regulation	I <sub>O</sub> ≤ I <sub>MAX</sub>		7.3				7.3	V

- All characteristics are measured with a capacitor across the input of 0.22μF and a capacitor across the output of 0.1μF. All characteristics except noise voltage and ripple rejection ratio are measured using pulse techniques ( $t_p \leq 10\text{ms}$ ,  $\delta \leq 5\%$ ). Output voltage changes due to changes in internal temperature must be taken into account separately.
- Although power dissipation is internally limited, these specifications are applicable for maximum power dissipation P<sub>MAX</sub> of 20W , I<sub>MAX</sub> = 1.0A.
- T<sub>J</sub> = 25°C unless otherwise stated.

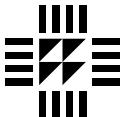


**SEME  
LAB**

**IP140A SERIES**  
**IP140 SERIES**  
**IP7800A SERIES**  
**IP7800 SERIES**  
**LM140 SERIES**

Parameter	Test Conditions	IP7812A IP140A-12			IP7812 IP140A-12			Units
		Min.	Typ.	Max.	Min.	Typ.	Max.	
V <sub>O</sub> Output Voltage	I <sub>O</sub> = 1A V <sub>IN</sub> = 19V	11.88	12	12.12	11.5	12	12.5	V
	I <sub>O</sub> = 5mA to I <sub>MAX</sub> P <sub>D</sub> ≤ P <sub>MAX</sub> V <sub>IN</sub> = 14.8V to 27V T <sub>J</sub> = -55 to 150°C	11.64		12.36	11.4		12.6	
V <sub>O</sub> Low Supply	I <sub>O</sub> = 5mA to I <sub>MAX</sub> P <sub>D</sub> ≤ P <sub>MAX</sub> V <sub>IN</sub> = 14.5V to 27V	11.40		12.36	11.4		12.6	V
ΔV <sub>O</sub> Line Regulation	I <sub>O</sub> = 0.5 I <sub>MAX</sub>	V <sub>IN</sub> = 14.5V to 30V	4	18			120	mV
		V <sub>IN</sub> = 14.8V to 30V T <sub>J</sub> = -55 to 150°C	4	18			120	
	I <sub>O</sub> ≤ I <sub>MAX</sub>	V <sub>IN</sub> = 14.5V to 27V	4	18			120	
	V <sub>IN</sub> = 16V to 22V		2	9			50	
	T <sub>J</sub> = -55 to 150°C		4	30			60	
ΔV <sub>O</sub> Load Regulation	V <sub>IN</sub> = 19V	I <sub>O</sub> = 5mA to 1.5A	12	32			120	mV
		I <sub>O</sub> = 250mA to 750mA	4	19			60	
	V <sub>IN</sub> = 19V	I <sub>O</sub> = 5mA to I <sub>MAX</sub> T <sub>J</sub> = -55 to 150°C	8	60			120	
I <sub>Q</sub> Quiescent Current	I <sub>O</sub> ≤ I <sub>MAX</sub> V <sub>IN</sub> = 19V	T <sub>J</sub> = -55 to 150°C	4	6			6	mA
ΔI <sub>Q</sub> Quiescent Current Change	I <sub>O</sub> = 5mA to I <sub>MAX</sub>	V <sub>IN</sub> = 19V	0.2	0.5			0.5	
	I <sub>O</sub> ≤ I <sub>MAX</sub>	V <sub>IN</sub> = 14.8V to 27V T <sub>J</sub> = -55 to 150°C	0.1	0.8			0.8	
	I <sub>O</sub> ≤ 0.5 I <sub>MAX</sub>	V <sub>IN</sub> = 15V to 30V	0.1	0.8			0.8	
	I <sub>O</sub> ≤ 0.5 I <sub>MAX</sub>	V <sub>IN</sub> = 14.5V to 30V T <sub>J</sub> = -55 to 150°C	0.2	1			1	
V <sub>N</sub> Output Noise Voltage	f = 10Hz to 100kHz V <sub>IN</sub> = 19V		75	480			75	μV
ΔV <sub>IN</sub> ΔV <sub>O</sub> Ripple Rejection	f = 120Hz V <sub>IN</sub> = 15V to 25V	I <sub>O</sub> ≤ I <sub>MAX</sub>	61	72			61	dB
		I <sub>O</sub> ≤ 0.5 I <sub>MAX</sub> T <sub>J</sub> = -55 to 150°C	61	72			61	
Dropout Voltage	I <sub>O</sub> = I <sub>MAX</sub>		2	2.5			2	V
R <sub>O</sub> Output Resistance	f = 1 kHz		8				8	mΩ
I <sub>sc</sub> Short Circuit Current	V <sub>IN</sub> = 35V		0.6	1.2			0.6	1.2
I <sub>pk</sub> Peak Output Current	V <sub>IN</sub> = 19V		2.4	3.3			2.4	3.3
Average Temperature Coefficient of V <sub>O</sub>	I <sub>O</sub> = 5mA		0.5	4.8			1.5	mV / °C
Input Voltage required to maintain line regulation	I <sub>O</sub> ≤ I <sub>MAX</sub>		14.5				14.6	V

- All characteristics are measured with a capacitor across the input of 0.22μF and a capacitor across the output of 0.1μF. All characteristics except noise voltage and ripple rejection ratio are measured using pulse techniques (t<sub>p</sub> ≤ 10ms, δ ≤ 5%). Output voltage changes due to changes in internal temperature must be taken into account separately.
- Although power dissipation is internally limited, these specifications are applicable for maximum power dissipation P<sub>MAX</sub> of 20W , I<sub>MAX</sub> = 1.0A.
- T<sub>J</sub> = 25°C unless otherwise stated.



**SEME  
LAB**

**IP140A SERIES**  
**IP140 SERIES**  
**IP7800A SERIES**  
**IP7800 SERIES**  
**LM140 SERIES**

Parameter	Test Conditions	IP7815A IP140A-15			IP7815 IP140A-15			Units
		Min.	Typ.	Max.	Min.	Typ.	Max.	
V <sub>O</sub> Output Voltage	I <sub>O</sub> = 1A V <sub>IN</sub> = 23V	14.85	15	15.15	14.4	15	15.60	V
	I <sub>O</sub> = 5mA to I <sub>MAX</sub> P <sub>D</sub> ≤ P <sub>MAX</sub> V <sub>IN</sub> = 17.9V to 30V T <sub>J</sub> = -55 to 150°C	14.55		15.45	14.25		15.75	
V <sub>O</sub> Low Supply	I <sub>O</sub> = 5mA to I <sub>MAX</sub> P <sub>D</sub> ≤ P <sub>MAX</sub> V <sub>IN</sub> = 17.5V to 30V	14.25		15.45	14.25		15.75	V
ΔV <sub>O</sub> Line Regulation	I <sub>O</sub> = 0.5 I <sub>MAX</sub>	V <sub>IN</sub> = 17.5V to 30V	4	22			150	mV
		V <sub>IN</sub> = 17.9V to 30V T <sub>J</sub> = -55 to 150°C	4	22			150	
	I <sub>O</sub> ≤ I <sub>MAX</sub>	V <sub>IN</sub> = 17.5V to 30V	4	22			150	
	V <sub>IN</sub> = 20V to 26V		2	10			60	
	T <sub>J</sub> = -55 to 150°C		5	30			75	
ΔV <sub>O</sub> Load Regulation	V <sub>IN</sub> = 23V	I <sub>O</sub> = 5mA to 1.5A	12	35			150	mV
		I <sub>O</sub> = 250mA to 750mA	4	21			75	
	V <sub>IN</sub> = 23V	I <sub>O</sub> = 5mA to I <sub>MAX</sub> T <sub>J</sub> = -55 to 150°C	9	75			150	
I <sub>Q</sub> Quiescent Current	I <sub>O</sub> ≤ I <sub>MAX</sub> V <sub>IN</sub> = 23V	T <sub>J</sub> = -55 to 150°C	4	6			6	mA
ΔI <sub>Q</sub> Quiescent Current Change	I <sub>O</sub> = 5mA to I <sub>MAX</sub>	V <sub>IN</sub> = 23V	0.2	0.5			0.5	mA
	I <sub>O</sub> ≤ I <sub>MAX</sub>	V <sub>IN</sub> = 17.9V to 30V T <sub>J</sub> = -55 to 150°C	0.1	0.8			0.8	
	I <sub>O</sub> ≤ 0.5 I <sub>MAX</sub>	V <sub>IN</sub> = 18.5V to 30V	0.1	0.8			0.8	
	I <sub>O</sub> ≤ 0.5 I <sub>MAX</sub>	V <sub>IN</sub> = 17.5V to 30V T <sub>J</sub> = -55 to 150°C	0.2	1			1	
V <sub>N</sub> Output Noise Voltage	f = 10Hz to 100kHz V <sub>IN</sub> = 23V		90	600		90		μV
ΔV <sub>IN</sub> ΔV <sub>O</sub> Ripple Rejection	f = 120Hz V <sub>IN</sub> = 18.5V to 28.5V	I <sub>O</sub> ≤ I <sub>MAX</sub>	60	70		60		dB
		I <sub>O</sub> ≤ 0.5 I <sub>MAX</sub> T <sub>J</sub> = -55 to 150°C	60	70		60		
Dropout Voltage	I <sub>O</sub> = I <sub>MAX</sub>		2	2.5		2		V
R <sub>O</sub> Output Resistance	f = 1 kHz		9			9		mΩ
I <sub>sc</sub> Short Circuit Current	V <sub>IN</sub> = 35V		0.6	1.2		0.6	1.2	A
I <sub>pk</sub> Peak Output Current	V <sub>IN</sub> = 23V		2.4	3.3		2.4	3.3	
Average Temperature Coefficient of V <sub>O</sub>	I <sub>O</sub> = 5mA		0.6	6		1.8		mV / °C
Input Voltage required to maintain line regulation	I <sub>O</sub> ≤ I <sub>MAX</sub>		17.5			17.7		V

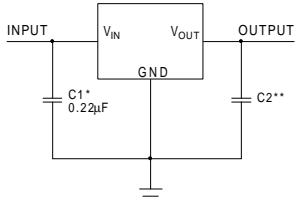
- All characteristics are measured with a capacitor across the input of 0.22μF and a capacitor across the output of 0.1μF. All characteristics except noise voltage and ripple rejection ratio are measured using pulse techniques ( $t_p \leq 10\text{ms}$ ,  $\delta \leq 5\%$ ). Output voltage changes due to changes in internal temperature must be taken into account separately.
- Although power dissipation is internally limited, these specifications are applicable for maximum power dissipation P<sub>MAX</sub> of 20W , I<sub>MAX</sub> = 1.0A.
- T<sub>J</sub> = 25°C unless otherwise stated.



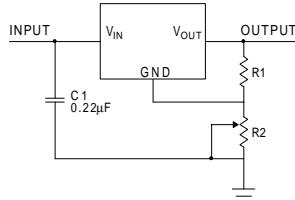
**SEME  
LAB**

**IP140A SERIES**  
**IP140 SERIES**  
**IP7800A SERIES**  
**IP7800 SERIES**  
**LM140 SERIES**

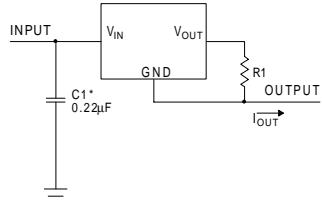
## APPLICATIONS INFORMATION



**Fixed Output Regulator**



**Adjustable Output Regulator**



**Current Regulator**

\* Required if the regulator is located far from the power supply.

\*\* Although no output capacitor is needed for stability, it does help transient response.(If needed, use 0.1µF ceramic disc)

$$V_{OUT} = 5V + \left( \frac{5V}{R1 + V} \right) R2$$

$$\left( \frac{5V}{R1} \right) > 3I_Q, \text{ Load Regulation} \approx$$

$$\left[ \frac{R1+R2}{R1} \right] (L_R \text{ of Regulator})$$

$$I_{OUT} = \left( \frac{V2 - V3}{R1} \right) + I_Q$$

$$\Delta I_Q = 1.3\text{mA over line and load changes}$$

## Order Information

Part Number	K-Pack (TO-3)	R-Pack (TO-66)	G/IG-Pack (TO-257)	SMD 1	Temp. Range	Note:
IP7800A	✓	✓	✓	✓	-55 to +150°C	To order, add the package identifier to the part number. eg. IP7805AK IP140SG-12
IP7800	✓	✓	✓	✓	"	
IP140A	✓	✓	✓	✓	"	
IP140	✓	✓	✓	✓	"	
LM140	✓	✓	✓	✓	"	



## Part number search for devices beginning "IP7805A"

[Semelab Home](#)

Datasheets are downloaded  
as Acrobat PDF files



### Linear Devices

PRODUCT	Screening options available	Package	Description	Temperature Range		Current (A)	Input Voltage SIDE 1 (V)	Output Voltage SIDE 1 (V)	Voltage drop SIDE 1 (typ.)	Voltage drop SIDE 1 (max.)	Input Voltage SIDE 2 (V)	Output Voltage SIDE 2 (V)	Voltage drop SIDE 2 (typ.)	Voltage drop SIDE 2 (max.)
				Polarity										
IP7805AB	?	SMM3	Voltage Regulator	0 to + 70°C	Positive	1.5A	7.5V to 25V	5V	2V	2.5V	-	-	-	-
IP7805AB-8QR-B	i	SMM3	Voltage Regulator	0 to + 70°C	Positive	1.5A	7.5V to 25V	5V	2V	2.5V	-	-	-	-
IP7805AB-DESC	i	SMM3	Voltage Regulator	0 to + 70°C	Positive	1.5A	7.5V to 25V	5V	2V	2.5V	-	-	-	-
<a href="#">IP7805AG</a>	?	TO257AA	Voltage Regulator	-55 to + 150°C	Positive	1.5A	7.5V to 25V	5V	2V	2.5V	-	-	-	-
<a href="#">IP7805AG-883B</a>	i	TO257AA	Voltage Regulator	-55 to + 150°C	Positive	1.5A	7.5V to 25V	5V	2V	2.5V	-	-	-	-
<a href="#">IP7805AG-8QR-B</a>	i	TO257AA	Voltage Regulator	-55 to + 150°C	Positive	1.5A	7.5V to 25V	5V	2V	2.5V	-	-	-	-
<a href="#">IP7805AG-BS</a>	i	TO257AA	Voltage Regulator	-55 to + 150°C	Positive	1.5A	7.5V to 25V	5V	2V	2.5V	-	-	-	-
<a href="#">IP7805AG-BSS2</a>	i	TO257AA	Voltage Regulator	-55 to + 150°C	Positive	1.5A	7.5V to 25V	5V	2V	2.5V	-	-	-	-
<a href="#">IP7805AG-DESC</a>	i	TO257AA	Voltage Regulator	-55 to + 150°C	Positive	1.5A	7.5V to 25V	5V	2V	2.5V	-	-	-	-
IP7805AGF	?	TO257-F	Voltage Regulator	-55 to + 150°C	Positive	1.5A	7.5V to 25V	5V	2V	2.5V	-	-	-	-
IP7805AGF-8QR-B	i	TO257-F	Voltage Regulator	-55 to + 150°C	Positive	1.5A	7.5V to 25V	5V	2V	2.5V	-	-	-	-
<a href="#">IP7805AIG</a>	?	TO257AA	Voltage Regulator Isolated	-55 to + 150°C	Positive	1.5A	7.5V to 25V	5V	2V	2.5V	-	-	-	-
<a href="#">IP7805AIG-883B</a>	i	TO257AA	Voltage Regulator Isolated	-55 to + 150°C	Positive	1.5A	7.5V to 25V	5V	2V	2.5V	-	-	-	-
<a href="#">IP7805AIG-8QR-B</a>	i	TO257AA	Voltage Regulator Isolated	-55 to + 150°C	Positive	1.5A	7.5V to 25V	5V	2V	2.5V	-	-	-	-
<a href="#">IP7805AIG-DESC</a>	i	TO257AA	Voltage Regulator Isolated	-55 to + 150°C	Positive	1.5A	7.5V to 25V	5V	2V	2.5V	-	-	-	-
IP7805AIGF	?	TO257-F	Voltage Regulator Isolated	-55 to + 150°C	Positive	1.5A	7.5V to 25V	5V	2V	2.5V	-	-	-	-
IP7805AIGF-8QR-B	i	TO257-F	Voltage Regulator Isolated	-55 to + 150°C	Positive	1.5A	7.5V to 25V	5V	2V	2.5V	-	-	-	-
<a href="#">IP7805AK</a>	?	TO3 (TO204AA)	Voltage Regulator	-55 to + 150°C	Positive	1.5A	7.5V to 25V	5V	2V	2.5V	-	-	-	-
<a href="#">IP7805AK-883B</a>	i	TO3 (TO204AA)	Voltage Regulator	-55 to + 150°C	Positive	1.5A	7.5V to 25V	5V	2V	2.5V	-	-	-	-
<a href="#">IP7805AK-8QR-B</a>	i	TO3 (TO204AA)	Voltage Regulator	-55 to + 150°C	Positive	1.5A	7.5V to 25V	5V	2V	2.5V	-	-	-	-
<a href="#">IP7805AK-BSS2</a>	i	TO3 (TO204AA)	Voltage Regulator	-55 to + 150°C	Positive	1.5A	7.5V to 25V	5V	2V	2.5V	-	-	-	-
<a href="#">IP7805AK-DESC</a>	i	TO3 (TO204AA)	Voltage Regulator	-55 to + 150°C	Positive	1.5A	7.5V to 25V	5V	2V	2.5V	-	-	-	-
<a href="#">IP7805AR</a>	?	TO66 (TO213AA)	Voltage Regulator	-55 to + 150°C	Positive	1.5A	7.5V to 25V	5V	2V	2.5V	-	-	-	-
<a href="#">IP7805AR-883B</a>	i	TO66 (TO213AA)	Voltage Regulator	-55 to + 150°C	Positive	1.5A	7.5V to 25V	5V	2V	2.5V	-	-	-	-

Part number search for devices beginning "IP7805A"

<a href="#">IP7805AR-8QR-B</a>		TO66 (TO213AA)	Voltage Regulator	-55 to +150°C Positive	1.5A	7.5V to 25V	5V	2V	2.5V	-	-	-	-
<a href="#">IP7805AR-BSS2</a>		TO66 (TO213AA)	Voltage Regulator	-55 to +150°C Positive	1.5A	7.5V to 25V	5V	2V	2.5V	-	-	-	-
<a href="#">IP7805AR-DESC</a>		TO66 (TO213AA)	Voltage Regulator	-55 to +150°C Positive	1.5A	7.5V to 25V	5V	2V	2.5V	-	-	-	-
<a href="#">IP7805ASMD</a>		SMD1 (TO276AB)	Voltage Regulator	-55 to +150°C Positive	1.5A	7.5V to 25V	5V	2V	2.5V	-	-	-	-
<a href="#">IP7805ASMD-8QR-B</a>		SMD1 (TO276AB)	Voltage Regulator	-55 to +150°C Positive	1.5A	7.5V to 25V	5V	2V	2.5V	-	-	-	-
<a href="#">IP7805ASMD05</a>		SMD0.5 (TO276AA)	Voltage Regulator	-55 to +150°C Positive	1.5A	7.5V to 25V	5V	2V	2.5V	-	-	-	-
<a href="#">IP7805ASMD05-8QR-B</a>		SMD0.5 (TO276AA)	Voltage Regulator	-55 to +150°C Positive	1.5A	7.5V to 25V	5V	2V	2.5V	-	-	-	-

## SCREENING OPTIONS AVAILABILITY

(including CECC, JAN/JANTX/JANTXV, BS)

symbol indicates that screening options are available for this device.

For device-specific screening options and order information, click the relevant symbol.  
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## Part number search for devices beginning "IP7815A"

[Semelab Home](#)

Datasheets are downloaded  
as Acrobat PDF files



### Linear Devices

PRODUCT	Screening options available	Package	Description	Temperature Range	Polarity	Current (A)	Input Voltage SIDE 1 (V)		Output Voltage SIDE 1 (V)		Voltage drop (typ.)		Input Voltage SIDE 2 (V)		Output Voltage SIDE 2 (V)		Voltage drop (typ.)	
							SIDE 1 (V)	(max.)	SIDE 1 (V)	(typ.)	SIDE 1 (V)	(max.)	SIDE 2 (V)	(V)	SIDE 2 (V)	(typ.)	SIDE 2 (V)	(max.)
<a href="#">IP7815AG</a>	?	TO257AA	Voltage Regulator	-55 to +150°C	Positive	1.5A	17.5V to 30V	15V	2V	2.5V	-	-	-	-	-	-	-	
<a href="#">IP7815AG-883B</a>	i	TO257AA	Voltage Regulator	-55 to +150°C	Positive	1.5A	17.5V to 30V	15V	2V	2.5V	-	-	-	-	-	-	-	
<a href="#">IP7815AG-8QR-B</a>	i	TO257AA	Voltage Regulator	-55 to +150°C	Positive	1.5A	17.5V to 30V	15V	2V	2.5V	-	-	-	-	-	-	-	
<a href="#">IP7815AG-BSS2</a>	i	TO257AA	Voltage Regulator	-55 to +150°C	Positive	1.5A	17.5V to 30V	15V	2V	2.5V	-	-	-	-	-	-	-	
<a href="#">IP7815AG-DESC</a>	i	TO257AA	Voltage Regulator	-55 to +150°C	Positive	1.5A	17.5V to 30V	15V	2V	2.5V	-	-	-	-	-	-	-	
IP7815AGF	?	TO257-F	Voltage Regulator	-55 to +150°C	Positive	1.5A	17.5V to 30V	15V	2V	2.5V	-	-	-	-	-	-	-	
IP7815AGF-8QR-B	i	TO257-F	Voltage Regulator	-55 to +150°C	Positive	1.5A	17.5V to 30V	15V	2V	2.5V	-	-	-	-	-	-	-	
<a href="#">IP7815AIG</a>	?	TO257AA	Voltage Regulator Isolated	-55 to +150°C	Positive	1.5A	17.5V to 30V	15V	2V	2.5V	-	-	-	-	-	-	-	
<a href="#">IP7815AIG-883B</a>	i	TO257AA	Voltage Regulator Isolated	-55 to +150°C	Positive	1.5A	17.5V to 30V	15V	2V	2.5V	-	-	-	-	-	-	-	
<a href="#">IP7815AIG-8QR-B</a>	i	TO257AA	Voltage Regulator Isolated	-55 to +150°C	Positive	1.5A	17.5V to 30V	15V	2V	2.5V	-	-	-	-	-	-	-	
<a href="#">IP7815AIG-DESC</a>	i	TO257AA	Voltage Regulator Isolated	-55 to +150°C	Positive	1.5A	17.5V to 30V	15V	2V	2.5V	-	-	-	-	-	-	-	
IP7815AIGF	?	TO257-F	Voltage Regulator Isolated	-55 to +150°C	Positive	1.5A	17.5V to 30V	15V	2V	2.5V	-	-	-	-	-	-	-	
IP7815AIGF-8QR-B	i	TO257-F	Voltage Regulator Isolated	-55 to +150°C	Positive	1.5A	17.5V to 30V	15V	2V	2.5V	-	-	-	-	-	-	-	
<a href="#">IP7815AK</a>	?	TO3 (TO204AA)	Voltage Regulator	-55 to +150°C	Positive	1.5A	17.5V to 30V	15V	2V	2.5V	-	-	-	-	-	-	-	
<a href="#">IP7815AK-883B</a>	i	TO3 (TO204AA)	Voltage Regulator	-55 to +150°C	Positive	1.5A	17.5V to 30V	15V	2V	2.5V	-	-	-	-	-	-	-	
<a href="#">IP7815AK-8QR-B</a>	i	TO3 (TO204AA)	Voltage Regulator	-55 to +150°C	Positive	1.5A	17.5V to 30V	15V	2V	2.5V	-	-	-	-	-	-	-	
<a href="#">IP7815AK-DESC</a>	i	TO3 (TO204AA)	Voltage Regulator	-55 to +150°C	Positive	1.5A	17.5V to 30V	15V	2V	2.5V	-	-	-	-	-	-	-	
<a href="#">IP7815AR</a>	?	TO66 (TO213AA)	Voltage Regulator	-55 to +150°C	Positive	1.5A	17.5V to 30V	15V	2V	2.5V	-	-	-	-	-	-	-	
<a href="#">IP7815AR-883B</a>	i	TO66 (TO213AA)	Voltage Regulator	-55 to +150°C	Positive	1.5A	17.5V to 30V	15V	2V	2.5V	-	-	-	-	-	-	-	
<a href="#">IP7815AR-8QR-B</a>	i	TO66 (TO213AA)	Voltage Regulator	-55 to +150°C	Positive	1.5A	17.5V to 30V	15V	2V	2.5V	-	-	-	-	-	-	-	
<a href="#">IP7815AR-DESC</a>	i	TO66 (TO213AA)	Voltage Regulator	-55 to +150°C	Positive	1.5A	17.5V to 30V	15V	2V	2.5V	-	-	-	-	-	-	-	
<a href="#">IP7815ASMD</a>	?	SMD1 (TO276AB)	Voltage Regulator	-55 to +150°C	Positive	1.5A	17.5V to 30V	15V	2V	2.5V	-	-	-	-	-	-	-	
<a href="#">IP7815ASMD-8QR-B</a>	i	SMD1 (TO276AB)	Voltage Regulator	-55 to +150°C	Positive	1.5A	17.5V to 30V	15V	2V	2.5V	-	-	-	-	-	-	-	
IP7815ASMD05	?	SMD0.5 (TO276AA)	Voltage Regulator	-55 to +150°C	Positive	1.5A	17.5V to 30V	15V	2V	2.5V	-	-	-	-	-	-	-	

Part number search for devices beginning "IP7815A"

IP7815ASMD05-8QR-B  SMD0.5 (TO276AA) Voltage Regulator -55 to +150°C Positive 1.5A 17.5V to 30V 15V 2V 2.5V - - -

## SCREENING OPTIONS AVAILABILITY

(including CECC, JAN/JANTX/JANTXV, BS)

 symbol indicates that screening options are available for this device.

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