

Positive Fixed Voltage Regulator

Description

The SG78xxA/SG78xx series of positive regulators offer self-contained, fixed-voltage capability with up to 1.5 A of load current and input voltage up to 50 V (SG78xxA series only). These units feature a unique on-chip trimming system to set the output voltages to within $\pm 1.5\%$ of nominal on the SG78xxA series with $\pm 2.0\%$ on the SG78xx series. The SG78xxA versions also offer much improved line and load regulation characteristics. Utilizing an improved bandgap reference design, problems such as drift in output voltage and large changes in the line and load regulation, that are normally associated with the Zener diode references have been eliminated.

All protective features of thermal shutdown, current limiting, and safe-area control have been designed into these units and since these regulators require only a small output capacitor for satisfactory performance, ease of application is assured. Although designed as fixed-voltage regulators, the output voltage can be increased through the use of a simple voltage divider. The low quiescent drain current of the device ensures good regulation when this method is used. Product is available in hermetically sealed TO-257 (both case grounded 'G' and isolated 'IG'), TO-3, TO-39 and leadless chip carrier (LCC) packages.

Features

- Output Voltage Set Internally to ±1.5% on SG78xxA
- Input Voltage Range to 50 V max on SG78xxA
- 2 V Input-Output Differential
- Excellent Line and Load Regulation
- Fold back Current Limiting
- Thermal Overload Protection
- Voltages Available: 5 V, 12 V, 15 V
- Contact Factory for Other Voltage Options
- Available in Surface Mount Package

High Reliability Features

- Available to MIL-STD 883, ¶ 1.2.1
- MIL-M38510/10702BXA SG7805T-JAN
- MIL-M38510/10703BXA SG7812T-JAN
- MIL-M38510/10704BXA SG7815T-JAN
- MIL-M38510/10706BYA SG7805K-JAN
- MIL-M38510/10707BYA SG7812K-JAN
- MIL-M38510/10708BYA SG7815K-JAN
- MSC-AMSG level "S" Processing Available
- Available to DSCC

-Standard Microcircuit Drawing (SMD)

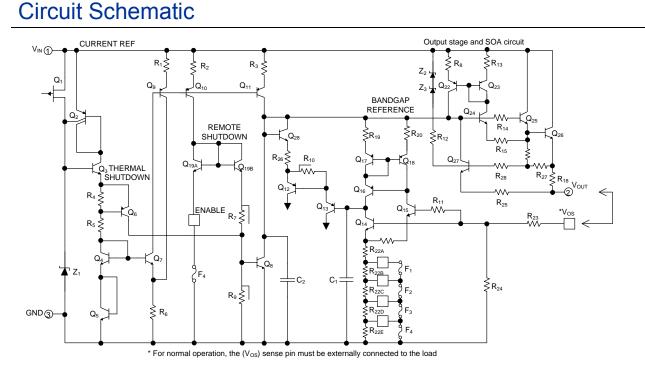


Figure 1 - Circuit Schematic



Connection Diagrams and Ordering Information

Ambient Temperature	Туре	Package	Part Number	Packaging Type	Connection Diagram
			SG78xxAK-883B		
			SG7805AK-DESC		
		SG7812AK-DESC		VIN	
			SG7815AK-DESC		
-55 °C to	K	3-Terminal	SG78xxAK	TO O	
125 °C	K	Metal Can	SG78xxK-883B	TO-3	
			SG7805K-JAN		
			SG7812K-JAN		V _{OUT} Case is Ground
			SG7815K-JAN		Ground
			SG78xxK		
			SG78xxAT-883B		
			SG7805AT-DESC		
			SG7812AT-DESC		V _{out}
			SG7815AT-DESC		
-55 °C to	-	0 Dia Matal Oan	SG78xxAT	TO 00	
125 °C	Т	3-Pin Metal Can	SG78xxT-883B	TO-39	_{GND} (③ ④) v _№
			SG7805T-JAN		\sim
			SG7812T-JAN		
			SG7815T-JAN		
			SG78xxT		
		3-Pin Hermetic Isolated	SG78xxAIG-883B		
			SG7805AIG-DESC		
			SG7812AIG-DESC		Vout
-55 °C to 125 °C	IG		SG7815AIG-DESC	TO-257	Ground
120 0		Package	SG78xxAIG		
			SG78xxIG-883B		
			SG78xxIG		
			SG7805AL-DESC		u v v v z × z z z
			SG7812AL-DESC		
			SG7815AL-DESC		N.C.) 4 18 N.C.
-55 °C to 125 °C	L	20-Pin Ceramic Package	SG78xxL-883B	Leadless Chip Carrier	N.C. 5 N.C. 6 GND 7 N.C. 8 9 10 11 12 13 0 5 2 5 2 2 See Notes 5 and 6
 			SG78xxAG-883B		
			SG7805AG-DESC		Vour
			SG7812AG-DESC		Ground
-55 °C to 125 °C	G	3-Pin Hermetic Package	SG7815AG-DESC	TO-257	
120 0		i ackaye	SG78xxAG		Case is Ground
			SG78xxG-883B		
			SG78xxG		



Notes:

- 1. Contact factory for JAN and DESC product availability.
- 2. All parts are viewed from the top.
- 3. "xx" to be replaced by output voltage of specific fixed regulator.
- 4. Some products will be available in hermetic flat pack (F). Consult factory for price and availability.
- 5. Both inputs and outputs must be externally connected together at the device terminals.
- 6. For normal operation, the V_0 SENSE pin must be externally connected to the load.

Absolute Maximum Ratings

Parameter	Value	Units
Device Output Voltage	5, 12, 15	V
Input Voltage	35	V
Input Voltage (Transient) (Note 2)	50	V
Input Voltage Differential (Output Shorted to Ground)	35	V
Operating Junction Temperature	150	°C
Storage Temperature Range	-65 to 150	°C
Lead Temperature (Soldering 10 seconds)	300	°C

Notes:

1. Exceeding these ratings could cause damage to the device. All voltages are with respect to Ground. Currents are positive into, negative out of specified terminal.

2. Operation at high input voltages is dependent upon load current. When load current is less than 5 mA, output will rise out of regulation as input-output differential increases beyond 30 V. Note also from Figure 2, that maximum load current is reduced at high voltages. The 50 V input rating of the SG78xxA series refers to ability to withstand high line or transient conditions without damage. Since the regulator's maximum current capability is reduced, the output may fall out of regulation at high input voltages under nominal loading.



Thermal Data

Parameter	Value	Units
K Package TO-3 3-Terminal Metal Can (Two pins and case)		
Thermal Resistance-Junction to Case, θ_{JC}	3	°C/W
Thermal Resistance-Junction to Ambient, θ_{JA}	35	°C/W
T Package TO-39 3-Pin Metal Can		
Thermal Resistance-Junction to Case, θ_{JC}	15	°C/W
Thermal Resistance-Junction to Ambient, θ_{JA}	120	°C/W
G Package TO-257 3-Pin Hermetic		
Thermal Resistance-Junction to Case, θ_{JC}	3.5	°C/W
Thermal Resistance-Junction to Ambient, θ_{JA}	42	°C/W
IG Package TO-257 3-Pin Hermetic (Isolated)		
Thermal Resistance-Junction to Case, θ_{JC}	4	°C/W
Thermal Resistance-Junction to Ambient, θ_{JA}	42	°C/W
L Package Leadless Chip Carrier 20-Pin Ceramic		
Thermal Resistance-Junction to Case, θ_{JC}	35	°C/W
Thermal Resistance-Junction to Ambient, θ_{JA}	120	°C/W

 Junction Temperature Calculation: T_J = T_A + (P_D × θ_{JA}).
 The θ_{JA} numbers are meant to be guidelines for the thermal performance of the device/pc-board system. All of the above assume no ambient airflow.

Recommended Operating Conditions

Peremeter	5	G78xx / 78xx/	Unito	
Parameter	Min	Тур	Max	Units
Operating Junction Temperature Range	-55		150	°C
<i>Note: Range over which the device is functional.</i>				



Electrical Characteristics

Unless specified, these specifications apply over the operating ambient temperatures for SG7805A / SG7805 with -55 °C \leq T_A \leq 125 °C, V_{IN} = 10 V, I_O = 500 mA for the K, G, and IG – Power Packages, I_O = 100 mA for the T and L packages, C_{IN} = 0.33 µF and C_{OUT} = 0.1 µF. Low duty cycle pulse testing techniques are used, which maintains junction and case temperatures equal to the ambient temperature.

Devenueter	Tast Osmalitisma	5	6G780)5A	SG7805			
Parameter	Test Conditions		Тур	Max	Min	Тур	Max	Units
Output Voltage	$T_J = 25 \ ^{\circ}C$	4.92	5	5.08	4.80	5	5.20	V
Line Regulation	$V_{IN} = 7.5$ V to 20 V, $T_J = 25$ °C		5	25		5	25	mV
(Note 1)	$V_{IN} = 8 \text{ V to } 12 \text{ V}, \text{T}_{\text{J}} = 25 ^{\circ}\text{C}$		2	12		2	25	mV
	Power Pkgs: $I_0 = 5$ mA to 1.5 A, $T_J = 25$ °C		15	50		15	50	mV
Load Regulation (Note 1)	$I_0 = 250 \text{ mA to } 750 \text{ mA}, T_J = 25^{\circ}\text{C}$		5	25		5	25	mV
	T, L – Pkg: I_0 = 5 mA to 500 mA, T_J = 250 °C		5	25		20	25	mV
Total Output Voltage	$V_{IN} = 8 V \text{ to } 20 V$ Power Pkgs: $I_0 = 5 \text{ mA to } 1.0 \text{ A}, P \le 20W$	4.85	5	5.15	4.65	5	5.35	V
Tolerance	al Output Voltage erance $V_{IN} = 8 V \text{ to } 20 V$ $T, L - Pkg: I_0 = 5 \text{ mA to } 500 \text{ mA}, P \le 2 W$ 4.85 5 escent Current Over Temperature Range	5.15	4.65	5	5.35	V		
Quiescent Current	Over Temperature Range			7			7	mA
	T _J = 25 °C		4	6		4	6	mA
	With Line: V_{IN} = 8 V to 25 V			0.8			0.8	mA
Quiescent Current Change	With Load: $I_0 = 5 \text{ mA}$ to 1.0 A (Power Pkgs)			0.5			0.5	mA
0	I _O = 5 mA to 500 mA (T, L)			0.5			0.5	mA
Dropout Voltage	ΔV_{O} = 100 mV, T _J = 25 °C Power Pkgs: I _O = 1.0 A, T, L -Pkg: I _O = 500 mA		2	2.5		2	2.5	V
Peak Output Current	Power Pkgs: V_{IN} = 10 V, T_J = 25 °C	1.5	2	3.3	1.5	2	3.3	А
Feak Output Current	T, L – Pkg: V _{IN} = 10 V, T _J = 25 °C	0.5	1	2	0.5	1	2	А
Short Circuit Current	Power Pkgs: V_{IN} = 35 V, T_J = 25 °C			1.2			1.2	Α
Short Greak Gurrent	T, L – Pkg: V _{IN} = 35V, T _J = 25 °C			0.7			0.7	А
Ripple Rejection	$\Delta V_{IN} = 10 \text{ V}, \text{ f} = 120 \text{ Hz}, \text{ T}_{J} = 25 \text{ °C}$	68			68			dB
Output Noise Voltage (rms)	f = 10 Hz to 100 kHz (Note 2)			40			40	μV/V
Long Term Stability	1000 hours @ T _J = 125 °C		20			20		mV
Thermal Shutdown	I _O = 5 mA		175			175		°C

2. This test is guaranteed but is not tested in production.



Electrical Characteristics

Unless specified, these specifications apply over the operating ambient temperatures for SG7812A / SG7812 with -55 °C \leq T_A \leq 125 °C, V_{IN} = 19 V, I_O = 500 mA for the K, G, and IG – Power Packages, I_O = 100 mA for the T and L packages, C_{IN} = 0.33 µF and C_{OUT} = 0.1 µF. Low duty cycle pulse testing techniques are used, which maintains junction and case temperatures equal to the ambient temperature.

D	Test Conditions		SG7812A			SG7812			
Parameter			Тур	Max	Min	Тур	Max	Units	
Output Voltage	$T_J = 25 \text{ °C}$	11.8	12	12.2	11.5	12	12.5	V	
Line Regulation	V_{IN} = 14.5 V to 30 V, T_J = 25 °C		12	60		12	120	mV	
(Note 1)	V_{IN} = 16 V to 22 V, T_J = 25 °C		6	30		6	60	mV	
	Power Pkgs: $I_0 = 5 \text{ mA to } 1.5 \text{ A}, T_J = 25 \text{ °C}$		28	80		28	120	mV	
Load Regulation (Note 1)	$I_{\rm O}$ = 250 mA to 750 mA, $T_{\rm J}$ = 25 °C		10	40		10	60	mV	
	T, L – Pkg: I_0 = 5 mA to 500 mA, T_J = 25 °C		10	40		10	60	mV	
Total Output Voltage	$V_{\rm IN}$ = 15.5 V to 27 V Power Pkgs: I_0 = 5 mA to 1.0 A, P \leq 20 W	11.7	12	12.3	11.4	12	12.6	V	
Total Output Voltage Tolerance	$V_{\rm IN}$ = 15.5 V to 27 V T, L – Pkg: I_0 = 5 mA to 500 mA, P \leq 2 W	11.7	12	12.3	11.4	12	12.6	V	
Quiescent Current	Over Temperature Range			7			7	mA	
	$T_J = 25 \text{ °C}$		4	6		4	6	mA	
	With Line: $V_{IN} = 15 \text{ V}$ to 30 V			0.8			0.8	mA	
Quiescent Current Change	With Load: $I_0 = 5 \text{ mA}$ to 1.0 A (Power Pkgs)			0.5			0.5	mA	
	$I_0 = 5 \text{ mA to } 500 \text{ mA (T, L)}$			0.5			0.5	mA	
Dropout Voltage	ΔV_{O} = 100 mV, T_{J} = 25 °C Power Pkgs: I_{O} = 1.0 A, T, L – Pkg: I_{O} = 500 mA		2	2.5		2	2.5	V	
	Power Pkgs: T _J = 25 °C	1.5	2	3.3	1.5	2	3.3	А	
Peak Output Current	Voltage $V_{IN} = 15.5 V \text{ to } 27 V$ Power Pkgs: $I_0 = 5 \text{ mA to } 1.0 \text{ A}, P \le 20 W$ 11.7 12 $V_{IN} = 15.5 V \text{ to } 27 V$ T, L - Pkg: $I_0 = 5 \text{ mA to } 500 \text{ mA}, P \le 2 W$ 11.7 12 urrent Over Temperature Range T_J = 25 °C 4 urrent With Line: $V_{IN} = 15 V \text{ to } 30 V$ 4 urrent With Load: $I_0 = 5 \text{ mA to } 1.0 \text{ A}$ (Power Pkgs) 1 $I_0 = 5 \text{ mA to } 500 \text{ mA}$ (T, L) 4 age $\Delta V_0 = 100 \text{ mV}, T_J = 25 °C$ Power Pkgs: $I_0 = 1.0 \text{ A}, T, L - Pkg: I_0 = 500 \text{ mA}$ 2 Current Power Pkgs: T_J = 25 °C 1.5 2 T, L - Pkg: T_J = 25 °C 0.5 1 Current Power Pkgs: V_{IN} = 35 V, T_J = 25 °C 0.5 1 Current Power Pkgs: V_{IN} = 35 V, T_J = 25 °C 0.5 1 Current Power Pkgs: V_{IN} = 35 V, T_J = 25 °C 61 1 e Voltage f = 10 Hz to 100 kHz (Note 2) 61 4 Stability 1000 hours @ T_J = 125 °C 48 48	1	1.7	0.5	1	1.7	А		
Short Circuit Current	Power Pkgs: V_{IN} = 35 V, T_J = 25 °C			1.2			1.2	А	
Short Circuit Current	T, L – Pkg: V_{IN} = 35 V, T _J = 25 °C			0.7			0.7	А	
Ripple Rejection	ΔV_{IN} = 10 V, f = 120 Hz, T _J = 25 °C	61			61			dB	
Output Noise Voltage (rms)	f = 10 Hz to 100 kHz (Note 2)			40			40	μV/V	
Long Term Stability	1000 hours @ T _J = 125 °C		48			48		mV	
Thermal Shutdown	I _O = 5 mA		175			175		°C	

2. This test is guaranteed but is not tested in production.



Electrical Characteristics

Unless specified, these specifications apply over the operating ambient temperatures for SG7815A / SG7815 with -55 °C \leq T_A \leq 125 °C, V_{IN} = 23 V, I_O = 500 mA for the K, G, and IG – Power Packages, I_O = 100 mA for the T and L packages, C_{IN} = 0.33 µF and C_{OUT} = 0.1 µF. Low duty cycle pulse testing techniques are used which maintains junction and case temperatures equal to the ambient temperature.

			G7815	5A	SG7815			
Parameter	Test Conditions	Min	Тур	Max	Min	Тур	Max	Units
Output Voltage	$T_J = 25 \text{ °C}$	14.8	15	15.2	14.4	15	15.6	V
Line Regulation	$V_{IN} = 17.5 \text{ V to } 30 \text{ V}, \text{ T}_{J} = 25 \text{ °C}$		15	75		15	150	mV
(Note 1)	V_{IN} = 20 V to 26 V, T_J = 25 °C		8	40		8	75	mV
	Power Pkgs: $I_0 = 5 \text{ mA to } 1.5 \text{ A}, T_J = 25 \text{ °C}$		30	100		30	150	mV
Load Regulation (Note 1)	$I_{\rm O}$ = 250 mA to 750 mA, $T_{\rm J}$ = 25 °C		12	50		12	75	mV
	T, L – Pkg: $I_0 = 5$ mA to 500 mA, $T_J = 25$ °C		12	50		12	75	mV
Total Output Voltage	$V_{\rm IN}$ = 18.5 V to 30 V Power Pkgs: $I_{\rm O}$ = 5 mA to 1.0 A, P \leq 20 W	14.6	15	15.4	14.3	15	15.7	V
Tolerance	$V_{\rm IN}$ = 18.5 V to 30 V T, L – Pkg: I_{\rm O} = 5 mA to 500 mA, P \leq 2 W	14.6	15	15.4	14.3	15	15.7	V
Quiescent Current Over Temperature Range $T_J = 25 \degree C$	Over Temperature Range			7			7	mA
	4	6		4	6	mA		
	With Line: $V_{IN} = 18.5 \text{ V}$ to 30 V			0.8			0.8	mA
Quiescent Current Change	With Load: $I_0 = 5 \text{ mA to } 1.0 \text{ A}$ (Power Pkgs)			0.5			0.5	mA
	I _O = 5 mA to 500 mA (T, L)			0.5			0.5	mA
Dropout Voltage	ΔV_{O} = 100 mV, T _J = 25 °C Power Pkgs: I _O = 1.0 A, T, L – Pkg: I _O = 500 mA		2	2.5		2	2.5	V
Peak Output Current	Power Pkgs: $T_J = 25 \text{ °C}$	1.5	2.2	3.3	1.5	2.2	3.3	А
r cak output ourient	T, L – Pkg: T _J = 25 °C	0.5	0.9	1.7	0.5	0.9	1.7	А
Short Circuit Current	Power Pkgs: V_{IN} = 35 V, T_J = 25 °C			1.2			1.2	А
Short Orean Ourean	T, L – Pkg: V_{IN} = 35 V, T _J = 25 °C			0.7			0.7	А
Ripple Rejection	$\Delta V_{IN} = 10 \text{ V}, \text{ f} = 120 \text{ Hz}, \text{ T}_{J} = 25 \text{ °C}$	60			60			dB
Output Noise Voltage (rms)	f = 10 Hz to 100 kHz (Note 2)			40			40	μV/V
Long Term Stability	1000 hours @ T _J = 125 °C		60			60		mV
Thermal Shutdown	I _O = 5 mA		175			175		°C

1. All regulation tests are made at constant junction temperature with low duty cycle testing.

2. This test is guaranteed but is not tested in production.



Characteristic Curves

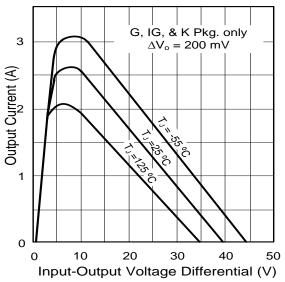


Figure 2 - Peak Output Current versus Input-Output Differential

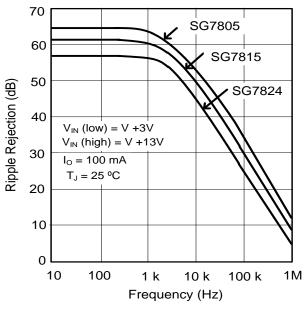


Figure 4 - Ripple Rejection versus Frequency

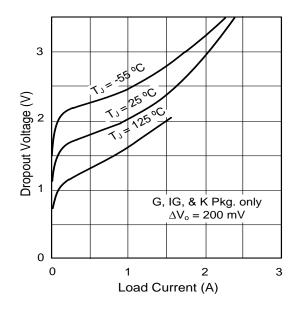
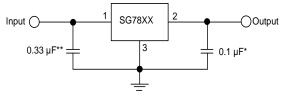


Figure 3 - Minimum Input-Output Voltage versus Load Current

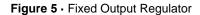


Application Information



* Increasing value of output capacitor improves system transient response

**Required only if regulator is located an appreciable distance from power supply filter



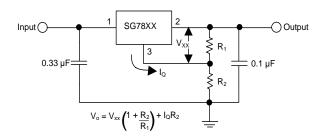


Figure 6 - Circuit for Increasing Output Voltage

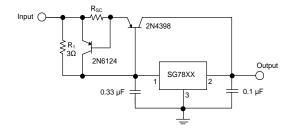


Figure 7 - High Output Current, Short Circuit Protected

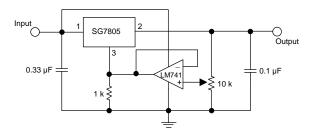
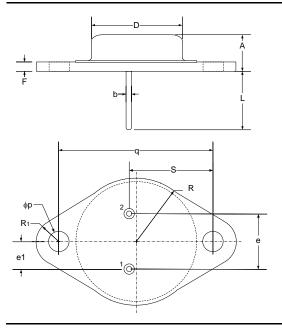


Figure 8 - Adjustable Output Regulator, 7 V to 30 V



Package Outline Dimensions

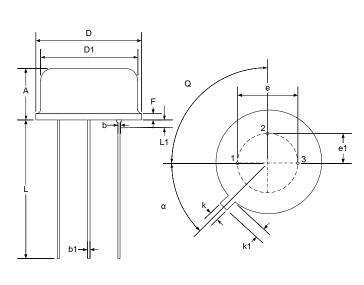


Controlling dimensions are in inches	s. metric equivalents are showr	for general information.
	, mound equivalente are enem	filler general internation

Dim	MILLIM	ETERS	INC	HES
Dim	MIN	MAX	MIN	MAX
А	6.86	7.62	0.270	0.300
q	29.90	30.40	1.177	1.197
b	0.97	1.09	0.038	0.043
D	19.43	19.68	0.765	0.775
S	16.64	17.14	0.655	0.675
е	10.67	11.18	0.420	0.440
e1	5.21	5.72	0.205	0.225
F	1.52	2.03	0.060	0.080
фр	3.84	4.09	0.151	0.161
L	10.79	12.19	0.425	0.480
R1	3.33	4.78	0.131	0.188
R	12.57	13.34	0.495	0.525

Note: Dimensions do not include protrusions; these shall not exceed 0.155 mm (0.006") on any side. Lead dimension shall not include solder coverage.

Figure 9 · K 3-Pin Metal Can TO-3

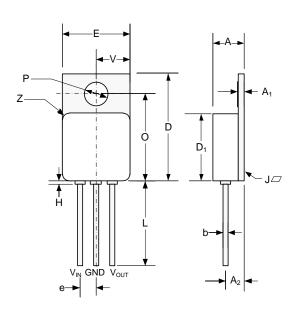


Dim	MILLIM	ETERS	INC	HES	
Dim	MIN	MAX	MIN	MAX	
Α	4.19	4.70	0.165	0.185	
b	0.41	0.48	0.016	0.019	
b1	0.41	0.53	0.016	0.021	
D	8.89	9.40	0.350	0.370	
D1	8.13	8.51	0.320	0.335	
е	5.08	BSC	0.200 BSC		
e1	2.54 Тур		0.100) Тур	
F	-	1.02	-	0.040	
k	0.71	0.86	0.028	0.034	
k1	0.74	1.14	0.029	0.045	
L	12.70	14.48	0.500	0.570	
L1	-	1.27	-	0.050	
Q	90°	Тур	90°	Тур	
α	45°	Тур	45° Typ		

* Lead Coplanarity

Note: Dimensions do not include protrusions; these shall not exceed 0.155 mm (0.006") on any side. Lead dimension shall not include solder coverage.

Figure 10 - T 3-Pin Metal Can TO-39



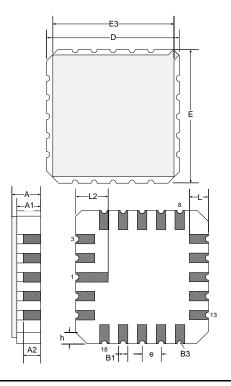
Package Outline Dimensions (continued)

Dim	MILLIMETERS			HES
Dim	MIN	MAX	MIN	MAX
Α	4.70	5.21	0.185	0.205
A1	0.89	1.14	0.035	0.045
A2	2.92	3.18	0.115	0.125
b	0.71	0.081	0.027	0.032
D	16.38	16.76	0.645	0.660
D1*	10.41	10.92	0.410	0.430
е	2.54 I	BSC	0.10	0 BSC
E*	10.41	10.67	0.410	0.420
Н		0.50		0.020
L	12.70		0.500	
0	13.39	13.64	0.527	0.537
Р	3.56	3.81	0.140	0.150
J		0.10		0.004
V	5.13	5.38	0.202	0.212
Z	1.40	Тур	0.05	5 Тур

*Excludes Weld Fillet Around Lid.

Note: Dimensions do not include protrusions; these shall not exceed 0.155 mm (0.006") on any side. Lead dimension shall not include solder coverage.

Figure 11 · G/IG 3-Pin Hermetic TO-257



Dim	MILLIM	ETERS	INC	HES	
Dim	MIN	MAX	MIN	MAX	
D, E	8.64	9.14	0.340	0.360	
E3	-	8.128	-	0.320	
е	1.270	BSC	0.050 BSC		
B1	0.635	5 Тур	0.025 Typ		
L	1.02	1.52	0.040	0.060	
А	1.626	2.286	0.064	0.090	
h	1.016	3 Тур	0.040	О Тур	
A1	1.372	1.68	0.054	0.066	
A2	-	1.168	-	0.046	
L2	1.91	2.41	0.075	0.95	
B3	0.20)3R	0.008R		

Note: All exposed metalized area shall be gold plated 60 μ -inch minimum thickness over nickel plated unless specified in purchase order. Lead dimension shall not include solder coverage

Figure 12 · L 20-Pin Ceramic Leadless Chip Carrier



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