



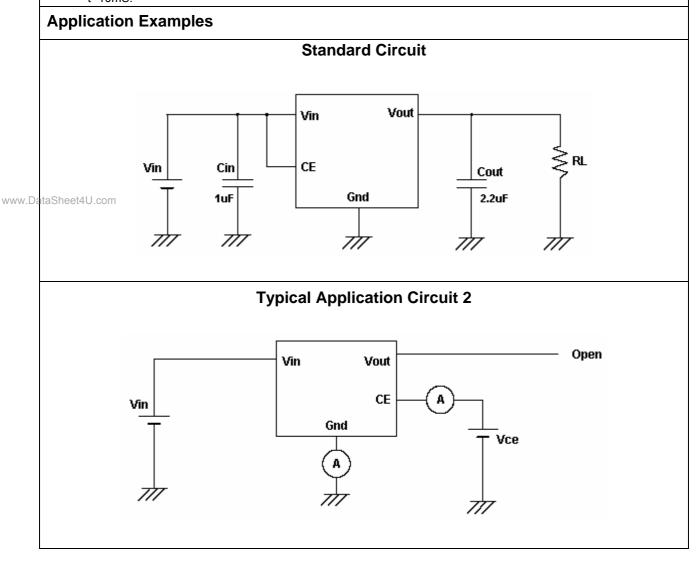
	Vin					
	V II I	+12			V	
	Vce	0 ~ Vin+0.3			V	
	lo	200			mA	
F	Pp		380		mW	
					°C/W	
	-				°C	
-	-				°C	
	STG					
			5		S	
	I			I		
	Vin	+10			V	
Vce		Gnd-0.3 ~ Vin+0.3			V	
Conditions		Min	Тур	Max	Uni	
		Min	Тур	Мах	Uni	
Vin=Vo + 1V, Io= 40mA		0.98 Vo		1.02 Vo	V	
			100		ppm/	
$Vo+1V \le Vin \le Vo$	+2V, lo=1mA		0.2	0.3	%/V	
Vin=Vo+1V, 1mA≤l _L ≤150mA	Vo ≥ 2.5V		30	80		
Vin=Vo+1V, 1mA≤l _L ≤80mA	Vo< 2.5V		40	90	- mV	
lo=80mA			200	400	mV	
lo=150mA			400	700		
Vin≤0.4V (shutdown)			0.01	1	uA	
Vin=Ven=Vo+1V				19	uA	
Vin=Vo+1V, Ven=Gnd				0.1		
Vout=0V			300		mA	
At f=100Hz, lo=0.1mA,			45		dB	
			0.05		%/W	
		<u>г</u>		1	1	
Regulation shutdo	wn			0.25	V	
Regulation shutdo Regulation enable Vce=Vin		 1.5		0.25	V V	
	C) Rating (Note 2) Rating (Note 2) S nless otherwise spe Condition Vin=Vo + 1V, lo= $-$ Vo+1V \leq Vin \leq Vo Vin=Vo+1V, 1mA \leq l_ \leq 150mA Vin=Vo+1V, 1mA \leq l_ \leq 80mA lo=80mA lo=150mA Vin \leq 0.4V (shutdow) Vin=Vo+1V, Ven= Vout=0V	$\begin{array}{c c c c c } & P_{D} & & \\ \hline & \Theta ja & \\ \hline & \Theta ja & \\ \hline & \\ \hline & \\ \hline & \\ \hline \\ \hline$	PD PD Θja Θja ange Tj -40 TSTG -65 C) Image -65 C) Vin Image Rating (Note 2) Vin Image Vin Vin Image Vin=Vo + 1V, lo= 40mA 0.98 Vo Vin=Vo+1V, lo= 40mA 0.98 Vo Vin=Vo+1V, lo= 40mA 0.98 Vo Ima < l_L < 150mA	$\begin{tabular}{ c c c c } \hline P_D & 380 \\ \hline Θja & 220 \\ \hline $ange$ Tj$ & -40 ~ +125 \\ \hline T_{STG} & $-65 ~ +150$ \\ \hline T_{STG} & $-65 ~ +150$ \\ \hline C & $-65 ~ +10$ \\ \hline V & -10 \\ \hline C & -10 \\ $	$\begin{tabular}{ c c c c } \hline P_D & 380 & $$ $$ $$ $$ $$ $$ $$ $$ $$ $$ $$ $$ $	



Electrical Characteristics (continued)

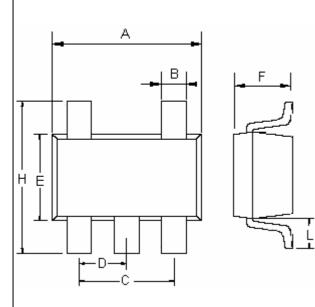
Note 1: Exceeding the absolute maximum rating may damage the device.

- Note 2: The device is not guaranteed to function outside its operating rating.
- Note 3: The maximum allowable power dissipation at any Ta is Pd(max) = [Tj(max) Ta] * Oja. Exceeding the maximum allowable power dissipation will result in excessive die temperature, and the regulator will go into thermal shutdown.
- Note 4: Output voltage temperature coefficient is defined as the worst case voltage change divided by the total temperature range.
- Note 5: Regulation is measured at constant junction temperature using low duty cycle pulse testing. Parts are tested for load regulation in the load range from 1mA to 150mA(Vout>2.5V) and 1mA to 80mA(Vout<2.5V). Changes in output voltage due to heating effects are covered by the thermal regulation specification.
- Note 6: Dropout voltage is defined as the input to output differential at which the output voltage drops 2% below its nominal value measured at 1V differential.
- Note 7: Ground pin current is the regulator quiescent current plus pass transistor base current. The total current drawn from the supply is the sum of the load current plus the ground pin current.
- Note 8: Thermal regulation is defined as the change in output voltage at a time "t" after a change in power dissipation is applied, excluding load or line regulation effects. Specifications are for a 150mA load pulse at Vin=12V for t=10mS.





SOT-25 Mechanical Drawing



	SOT-23 DIMENSION							
DIM	MILLIMETERS		INCHES					
	MIN	MAX	MIN	MAX				
А	2.70	3.00	0.106	0.118				
В	0.25	0.50	0.010	0.020				
С	1.90(typ)		0.075(typ)					
D	0.95(typ)		0.037(typ)					
Е	1.50	1.70	0.059	0.067				
F	1.05	1.35	0.041	0.053				
Н	2.60	3.00	0.102	0.118				
L	0.60(typ)		0.024(typ)					

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