

ABSOLUTE MAXIMUM RATINGS (Note 1)

Supply Voltage

LT1170/71/72HV (Note 2)	60V
LT1170/71/72 (Note 2)	40V

Switch Output Voltage

LT1170/71/72HV	75V
LT1170/71/72	65V
LT1172S8	60V

Feedback Pin Voltage (Transient, 1ms) ±15V

Storage Temperature Range -65°C to 150°C

Lead Temperature (Soldering, 10 sec) 300°C

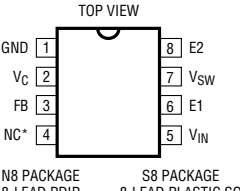
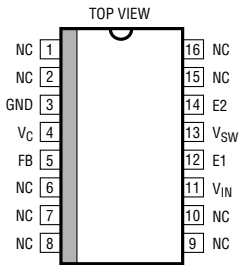
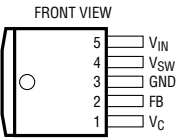
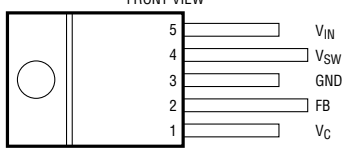
Operating Junction Temperature Range

LT1170/71/72M (**OBSOLETE**) .. -55°C to 150°C

LT1170/71/72HVC,
LT1170/71/72C (Oper.) 0°C to 100°C } C
LT1170/71/72HVC
LT1170/71/72C (Sh. Ckt.) 0°C to 125°C }

LT1170/71/72HVI,
LT1170/71/72I (Oper.) -40°C to 100°C } I
LT1170/71/72HVI,
LT1170/71/72I (Sh. Ckt.) -40°C to 125°C }

PACKAGE/ORDER INFORMATION

 <p>N8 PACKAGE 8-LEAD PDIP</p> <p>S8 PACKAGE 8-LEAD PLASTIC SO</p> <p>* Do not connect Pin 4 of the LT1172 DIP or SO to external circuitry. This pin may be active in future revisions.</p> <p>$T_{JMAX} = 100^{\circ}\text{C}$, $\theta_{JA} = 100^{\circ}\text{C/W}$ (N) $T_{JMAX} = 100^{\circ}\text{C}$, $\theta_{JA} = 120^{\circ}\text{C/W}$ to 150°C/W depending on board layout (S)</p>	<p>ORDER PART NUMBER</p> <p>LT1172CN8 LT1172IN8 LT1172CS8 LT1172IS8</p> <p>S8 PART MARKING</p> <p>1172 1172I</p>	 <p>SW PACKAGE 16-LEAD PLASTIC SO WIDE</p> <p>$T_{JMAX} = 100^{\circ}\text{C}$, $\theta_{JA} = 150^{\circ}\text{C/W}$</p> <p>Based on continuous operation. $T_{JMAX} = 125^{\circ}\text{C}$ for intermittent fault conditions.</p>	<p>ORDER PART NUMBER</p> <p>LT1172CSW</p>																
 <p>Q PACKAGE 5-LEAD DD</p> <p>$T_{JMAX} = 100^{\circ}\text{C}$, $\theta_{JA} = ^{\circ}\text{C/W}$</p> <p>*$\theta$ will vary from approximately 25°C/W with 2.8 sq. in. of 1oz. copper to 45°C/W with 0.20 sq. in. of 1oz. copper. Somewhat lower values can be obtained with additional copper layers in multilayer boards.</p>	<p>ORDER PART NUMBER</p> <p>LT1170CQ LT1170IQ LT1170HVCQ LT1171CQ LT1171IQ LT1171HVCQ LT1171HVIQ LT1172CQ LT1172HVCQ LT1172HVIQ</p>	 <p>T PACKAGE 5-LEAD PLASTIC TO-220</p> <table border="1"> <thead> <tr> <th></th> <th>T_{JMAX}</th> <th>θ_{JC}</th> <th>θ_{JA}</th> </tr> </thead> <tbody> <tr> <td>LT1170CT/LT1170HVCT</td> <td>100°C</td> <td>2°C/W</td> <td>75°C/W</td> </tr> <tr> <td>LT1171CT/LT1171HVCT</td> <td>100°C</td> <td>4°C/W</td> <td>75°C/W</td> </tr> <tr> <td>LT1172CT/LT1172HVCT</td> <td>100°C</td> <td>8°C/W</td> <td>75°C/W</td> </tr> </tbody> </table> <p>Based on continuous operation. $T_{JMAX} = 125^{\circ}\text{C}$ for intermittent fault conditions.</p>		T_{JMAX}	θ_{JC}	θ_{JA}	LT1170CT/LT1170HVCT	100°C	2°C/W	75°C/W	LT1171CT/LT1171HVCT	100°C	4°C/W	75°C/W	LT1172CT/LT1172HVCT	100°C	8°C/W	75°C/W	<p>ORDER PART NUMBER</p> <p>LT1170CT LT1170IT LT1170HVCT LT1170HVIT LT1171CT LT1171IT LT1171HVCT LT1171HVIT LT1172CT LT1172HVCT</p>
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