

MS101206-MISC

TO 220 Leadbend Options



Literature Number: SNOA073C

TO 220 Leadbend Options

National Semiconductor offers several types of enhanced packages. One with high popularity is the TO-220 package designed with exposed heat sink for efficient heat dissipation. Examples of some products used in this package are voltage regulators, comparators, and high current switches. The TO-220 package is offered in lead counts from 3 to 15. To provide flexibility on system board applications, several leadbend options are offered as shown.

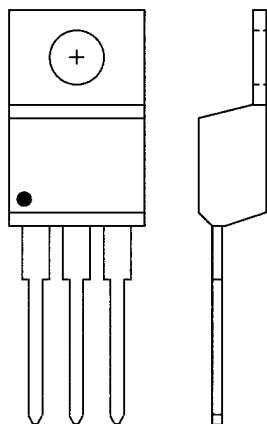
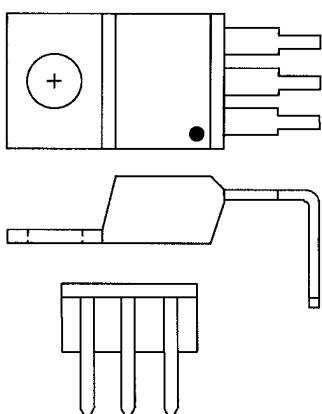
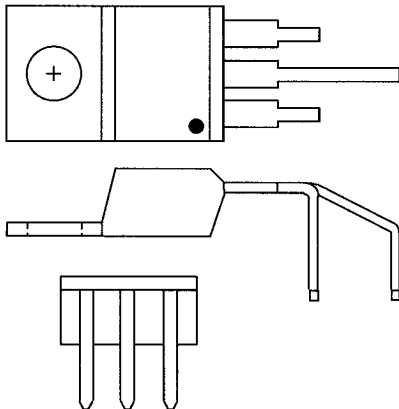
For any TO-220 package, please check with your sales representative for availability of requested leadbend options.

Note:

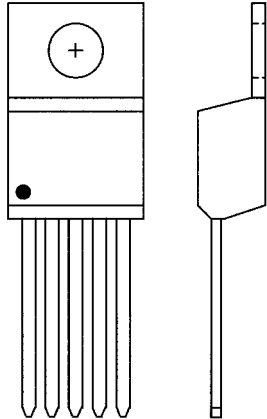
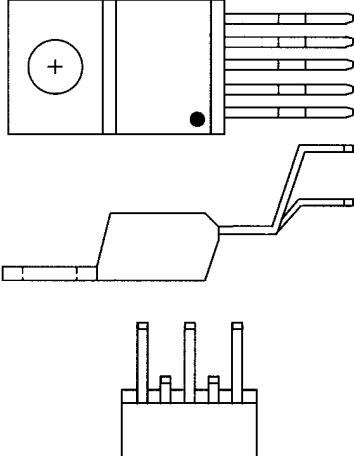
- Surface Mount Leadform available as TO-263 package.

- National Semiconductor's leadbend process requires an accurate set up and tight tooling controls. Third party leadbends are not recommended nor guaranteed, as an incorrect set up can potentially damage the device and render the device non-functional. For special lead forming or bending requirements please contact your National sales or marketing person.
- The maximum recommended torque force to mount a TO-220 package to a heatsink or PCB board is 9 inch-pounds. Use of rivet or exceeding torque force can potentially damage the device and render it non-functional and is not recommended nor guaranteed.

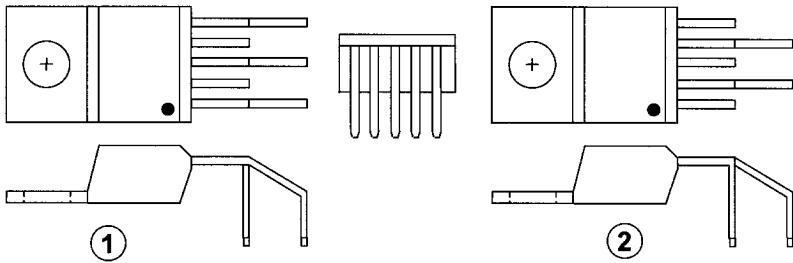
3 Lead Leadbend Options

			
	Drawing No.	Flow No.	Drawing No.
STD	MKT-T03B	LB06	MKT-T03A
			
Flow No.		Drawing No.	
LB07		MKT-T03D	
Ordering Example: LM2940T-5.0 LB07			

5 Lead Standard Leadbend Options

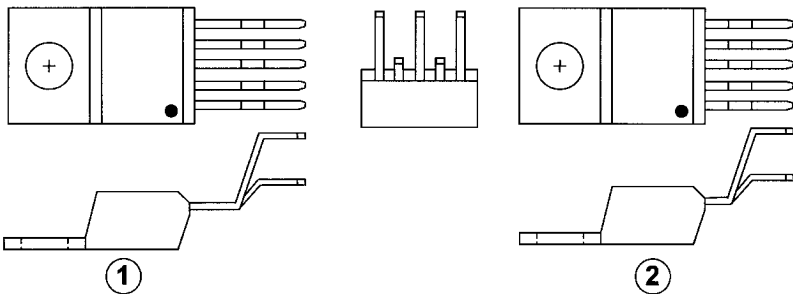
			
	Drawing No.	Flow No.	Drawing No.
STD	MKT-T05A	STD	MKT-T05D
Ordering Example: LM2575T			

5 Lead Non-Standard Leadbend Options



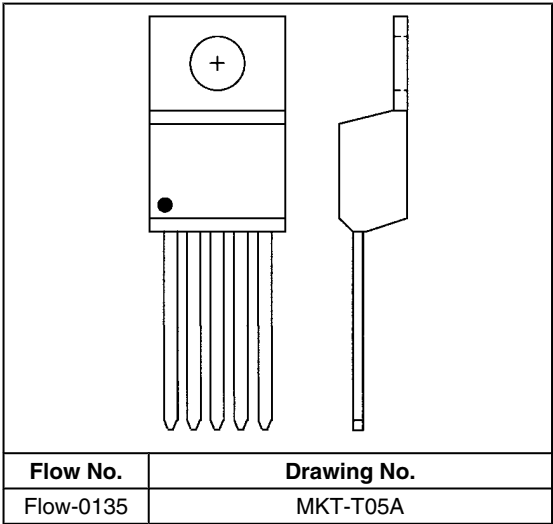
Flow No.	Drawing No.	
LB02	MKT-TA05B	1
LB05	MKT-T05E	2

Ordering Example: LM1875T LB02



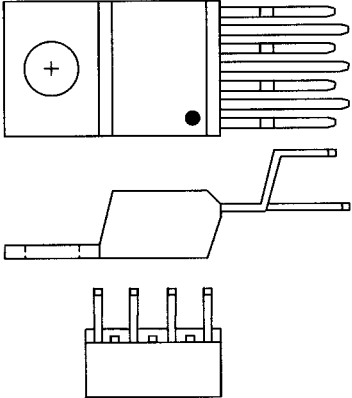
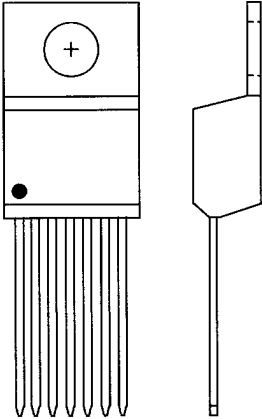
Flow No.	Drawing No.	
LB03	MKT-T05D	1
LB04	MKT-T05F	2

Ordering Example: LM2941T LB04

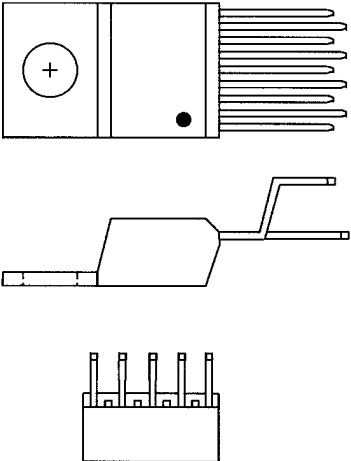


Flow No.	Drawing No.
Flow-0135	MKT-T05A

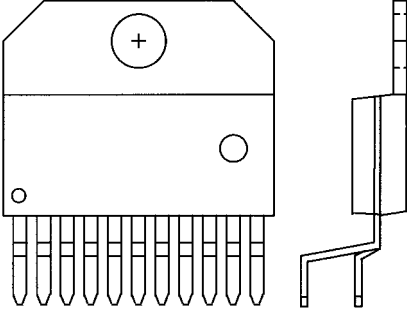
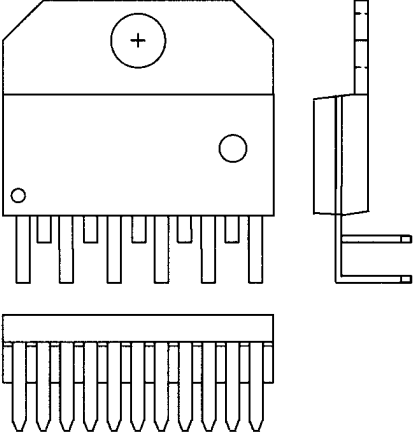
7 Lead Leadbend Options

			
	Drawing No.	Flow No.	Drawing No.
STD	MKT-TA07B	Flow-0135	MKT-TA07A
Ordering Example: LM2676T-ADJ		Ordering Example: LM2676T-ADJ Flow-0135	

9 Lead Leadbend Options

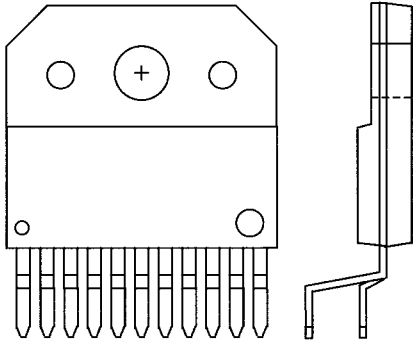
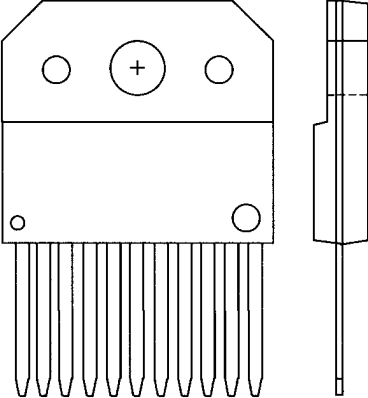
	
	Drawing No.
STD	MKT-TA9A

11 Lead Non-Isolated Leadbend Options

			
	Drawing No.	Flow No.	Drawing No.
STD	MKT-TA11B	LB14	MKT-TA11E

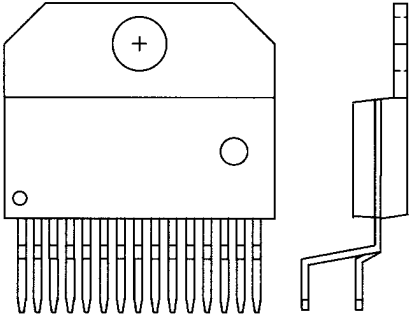
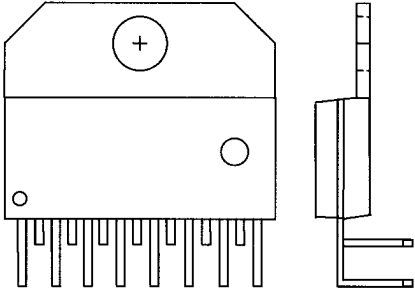
Ordering Example: LM2876T LB14

11 Lead Isolated Leadbend Options

			
	Drawing No.	Flow No.	Drawing No.
STD	MKT-TF11B	LB11	MKT-TF11D

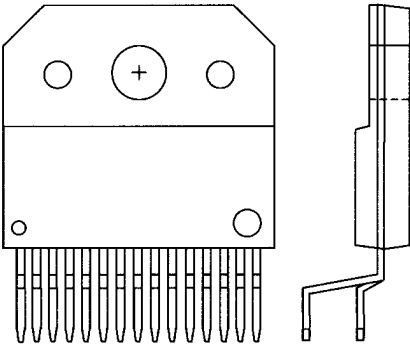
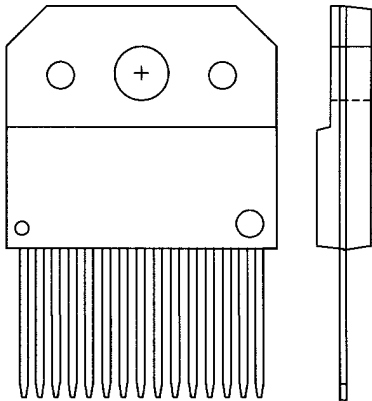
Ordering Example: LM4700TF LB11

15 Lead Non-Isolated Leadbend Options

			
	Drawing No.	Flow No.	Drawing No.
STD	MKT-TA15A	LB10	MKT-TA15D

Ordering Example: LM1876T LB10

15 Lead Isolated Leadbend Options

			
	Drawing No.	Flow No.	Drawing No.
STD	MKT-TF15B	LB13	MKT-TF15A

Ordering Example: LM1876TF LB13

Notes

Notes

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