

**PACKAGING INFORMATION**

Orderable part number	Status (1)	Material type (2)	Package   Pins	Package qty   Carrier	RoHS (3)	Lead finish/ Ball material (4)	MSL rating/ Peak reflow (5)	Op temp (°C)	Part marking (6)
<a href="#">LM431ACM/NOPB</a>	Active	Production	SOIC (D)   8	95   TUBE	Yes	SN	Level-1-260C-UNLIM	0 to 70	LM431 ACM
LM431ACM/NOPB.B	Active	Production	SOIC (D)   8	95   TUBE	Yes	SN	Level-1-260C-UNLIM	0 to 70	LM431 ACM
<a href="#">LM431ACM3/NOPB</a>	Active	Production	SOT-23 (DBZ)   3	1000   SMALL T&R	Yes	SN	Level-1-260C-UNLIM	0 to 70	N1F
LM431ACM3/NOPB.B	Active	Production	SOT-23 (DBZ)   3	1000   SMALL T&R	Yes	SN	Level-1-260C-UNLIM	0 to 70	N1F
<a href="#">LM431ACM3X/NOPB</a>	Active	Production	SOT-23 (DBZ)   3	3000   LARGE T&R	Yes	SN	Level-1-260C-UNLIM	0 to 70	N1F
LM431ACM3X/NOPB.B	Active	Production	SOT-23 (DBZ)   3	3000   LARGE T&R	Yes	SN	Level-1-260C-UNLIM	0 to 70	N1F
<a href="#">LM431ACMX/NOPB</a>	Active	Production	SOIC (D)   8	2500   LARGE T&R	Yes	SN	Level-1-260C-UNLIM	0 to 70	LM431 ACM
LM431ACMX/NOPB.B	Active	Production	SOIC (D)   8	2500   LARGE T&R	Yes	SN	Level-1-260C-UNLIM	0 to 70	LM431 ACM
<a href="#">LM431ACZ/LFT3</a>	Active	Production	TO-92 (LP)   3	2000   LARGE T&R	Yes	SN	N/A for Pkg Type	-	LM431 ACZ
LM431ACZ/LFT3.B	Active	Production	TO-92 (LP)   3	2000   LARGE T&R	Yes	SN	N/A for Pkg Type	-40 to 85	LM431 ACZ
<a href="#">LM431ACZ/LFT4</a>	Active	Production	TO-92 (LP)   3	2000   LARGE T&R	Yes	SN	N/A for Pkg Type	-	LM431 ACZ
LM431ACZ/LFT4.B	Active	Production	TO-92 (LP)   3	2000   LARGE T&R	Yes	SN	N/A for Pkg Type	-40 to 85	LM431 ACZ
<a href="#">LM431ACZ/NOPB</a>	Active	Production	TO-92 (LP)   3	1800   BULK	Yes	Call TI	N/A for Pkg Type	0 to 70	LM431 ACZ
LM431ACZ/NOPB.B	Active	Production	TO-92 (LP)   3	1800   BULK	Yes	Call TI	N/A for Pkg Type	0 to 70	LM431 ACZ
<a href="#">LM431AIM/NOPB</a>	Active	Production	SOIC (D)   8	95   TUBE	Yes	SN	Level-1-260C-UNLIM	-40 to 85	LM431 AIM
LM431AIM/NOPB.B	Active	Production	SOIC (D)   8	95   TUBE	Yes	SN	Level-1-260C-UNLIM	-40 to 85	LM431 AIM
<a href="#">LM431AIM3/NOPB</a>	Active	Production	SOT-23 (DBZ)   3	1000   SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 85	N1E
LM431AIM3/NOPB.B	Active	Production	SOT-23 (DBZ)   3	1000   SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 85	N1E
<a href="#">LM431AIM3X/NOPB</a>	Active	Production	SOT-23 (DBZ)   3	3000   LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 85	N1E
LM431AIM3X/NOPB.B	Active	Production	SOT-23 (DBZ)   3	3000   LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 85	N1E

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<a href="#">LM431AIMX/NOPB</a>	Active	Production	SOIC (D)   8	2500   LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 85	LM431 AIM
LM431AIMX/NOPB.B	Active	Production	SOIC (D)   8	2500   LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 85	LM431 AIM
<a href="#">LM431AIZ/LFT1</a>	Active	Production	TO-92 (LP)   3	2000   LARGE T&R	Yes	SN	N/A for Pkg Type	-	LM431 AIZ
LM431AIZ/LFT1.B	Active	Production	TO-92 (LP)   3	2000   LARGE T&R	Yes	SN	N/A for Pkg Type	-40 to 85	LM431 AIZ
<a href="#">LM431AIZ/NOPB</a>	Active	Production	TO-92 (LP)   3	1800   BULK	Yes	Call TI	N/A for Pkg Type	-40 to 85	LM431 AIZ
LM431AIZ/NOPB.B	Active	Production	TO-92 (LP)   3	1800   BULK	Yes	Call TI	N/A for Pkg Type	-40 to 85	LM431 AIZ
<a href="#">LM431BCM/NOPB</a>	Active	Production	SOIC (D)   8	95   TUBE	Yes	SN	Level-1-260C-UNLIM	0 to 70	431 BCM
LM431BCM/NOPB.B	Active	Production	SOIC (D)   8	95   TUBE	Yes	SN	Level-1-260C-UNLIM	0 to 70	431 BCM
<a href="#">LM431BCM3/NOPB</a>	Active	Production	SOT-23 (DBZ)   3	1000   SMALL T&R	Yes	SN	Level-1-260C-UNLIM	0 to 70	N1D
LM431BCM3/NOPB.B	Active	Production	SOT-23 (DBZ)   3	1000   SMALL T&R	Yes	SN	Level-1-260C-UNLIM	0 to 70	N1D
<a href="#">LM431BCM3X/NOPB</a>	Active	Production	SOT-23 (DBZ)   3	3000   LARGE T&R	Yes	SN	Level-1-260C-UNLIM	0 to 70	N1D
LM431BCM3X/NOPB.B	Active	Production	SOT-23 (DBZ)   3	3000   LARGE T&R	Yes	SN	Level-1-260C-UNLIM	0 to 70	N1D
<a href="#">LM431BCM3X/NOPB</a>	Active	Production	SOIC (D)   8	2500   LARGE T&R	Yes	SN	Level-1-260C-UNLIM	0 to 70	431 BCM
LM431BCM3X/NOPB.B	Active	Production	SOIC (D)   8	2500   LARGE T&R	Yes	SN	Level-1-260C-UNLIM	0 to 70	431 BCM
<a href="#">LM431BCZ/NOPB</a>	Active	Production	TO-92 (LP)   3	1800   BULK	Yes	Call TI	N/A for Pkg Type	0 to 70	LM431 BCZ
LM431BCZ/NOPB.B	Active	Production	TO-92 (LP)   3	1800   BULK	Yes	Call TI	N/A for Pkg Type	0 to 70	LM431 BCZ
<a href="#">LM431BIM/NOPB</a>	Active	Production	SOIC (D)   8	95   TUBE	Yes	SN	Level-1-260C-UNLIM	-40 to 85	431 BIM
LM431BIM/NOPB.B	Active	Production	SOIC (D)   8	95   TUBE	Yes	SN	Level-1-260C-UNLIM	-40 to 85	431 BIM
<a href="#">LM431BIM3/NOPB</a>	Active	Production	SOT-23 (DBZ)   3	1000   SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 85	N1C
LM431BIM3/NOPB.B	Active	Production	SOT-23 (DBZ)   3	1000   SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 85	N1C

Orderable part number	Status (1)	Material type (2)	Package   Pins	Package qty   Carrier	RoHS (3)	Lead finish/ Ball material (4)	MSL rating/ Peak reflow (5)	Op temp (°C)	Part marking (6)
<a href="#">LM431BIM3X/NOPB</a>	Active	Production	SOT-23 (DBZ)   3	3000   LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 85	N1C
LM431BIM3X/NOPB.B	Active	Production	SOT-23 (DBZ)   3	3000   LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 85	N1C
<a href="#">LM431BIMX/NOPB</a>	Active	Production	SOIC (D)   8	2500   LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 85	431 BIM
LM431BIMX/NOPB.B	Active	Production	SOIC (D)   8	2500   LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 85	431 BIM
<a href="#">LM431CCM/NOPB</a>	Active	Production	SOIC (D)   8	95   TUBE	Yes	SN	Level-1-260C-UNLIM	0 to 70	431 CCM
LM431CCM/NOPB.B	Active	Production	SOIC (D)   8	95   TUBE	Yes	SN	Level-1-260C-UNLIM	0 to 70	431 CCM
<a href="#">LM431CCM3/NOPB</a>	Active	Production	SOT-23 (DBZ)   3	1000   SMALL T&R	Yes	SN	Level-1-260C-UNLIM	0 to 70	N1B
LM431CCM3/NOPB.B	Active	Production	SOT-23 (DBZ)   3	1000   SMALL T&R	Yes	SN	Level-1-260C-UNLIM	0 to 70	N1B
<a href="#">LM431CCM3X/NOPB</a>	Active	Production	SOT-23 (DBZ)   3	3000   LARGE T&R	Yes	SN	Level-1-260C-UNLIM	0 to 70	N1B
LM431CCM3X/NOPB.B	Active	Production	SOT-23 (DBZ)   3	3000   LARGE T&R	Yes	SN	Level-1-260C-UNLIM	0 to 70	N1B
<a href="#">LM431CCZ/NOPB</a>	Active	Production	TO-92 (LP)   3	1800   BULK	Yes	Call TI	N/A for Pkg Type	0 to 70	LM431 CCZ
LM431CCZ/NOPB.B	Active	Production	TO-92 (LP)   3	1800   BULK	Yes	Call TI	N/A for Pkg Type	0 to 70	LM431 CCZ
<a href="#">LM431CIM/NOPB</a>	Active	Production	SOIC (D)   8	95   TUBE	Yes	SN	Level-1-260C-UNLIM	-40 to 85	431 CIM
LM431CIM/NOPB.B	Active	Production	SOIC (D)   8	95   TUBE	Yes	SN	Level-1-260C-UNLIM	-40 to 85	431 CIM
<a href="#">LM431CIM3/NOPB</a>	Active	Production	SOT-23 (DBZ)   3	1000   SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 85	N1A
LM431CIM3/NOPB.B	Active	Production	SOT-23 (DBZ)   3	1000   SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 85	N1A
<a href="#">LM431CIM3X/NOPB</a>	Active	Production	SOT-23 (DBZ)   3	3000   LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 85	N1A
LM431CIM3X/NOPB.B	Active	Production	SOT-23 (DBZ)   3	3000   LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 85	N1A
<a href="#">LM431CIZ/NOPB</a>	Active	Production	TO-92 (LP)   3	1800   BULK	Yes	Call TI	N/A for Pkg Type	-40 to 85	LM431 CIZ
LM431CIZ/NOPB.B	Active	Production	TO-92 (LP)   3	1800   BULK	Yes	Call TI	N/A for Pkg Type	-40 to 85	LM431 CIZ

<sup>(1)</sup> **Status:** For more details on status, see our [product life cycle](#).

- (2) **Material type:** When designated, preproduction parts are prototypes/experimental devices, and are not yet approved or released for full production. Testing and final process, including without limitation quality assurance, reliability performance testing, and/or process qualification, may not yet be complete, and this item is subject to further changes or possible discontinuation. If available for ordering, purchases will be subject to an additional waiver at checkout, and are intended for early internal evaluation purposes only. These items are sold without warranties of any kind.
- (3) **RoHS values:** Yes, No, RoHS Exempt. See the [TI RoHS Statement](#) for additional information and value definition.
- (4) **Lead finish/Ball material:** Parts may have multiple material finish options. Finish options are separated by a vertical ruled line. Lead finish/Ball material values may wrap to two lines if the finish value exceeds the maximum column width.
- (5) **MSL rating/Peak reflow:** The moisture sensitivity level ratings and peak solder (reflow) temperatures. In the event that a part has multiple moisture sensitivity ratings, only the lowest level per JEDEC standards is shown. Refer to the shipping label for the actual reflow temperature that will be used to mount the part to the printed circuit board.
- (6) **Part marking:** There may be an additional marking, which relates to the logo, the lot trace code information, or the environmental category of the part.

Multiple part markings will be inside parentheses. Only one part marking contained in parentheses and separated by a "~" will appear on a part. If a line is indented then it is a continuation of the previous line and the two combined represent the entire part marking for that device.

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