

## PACKAGING INFORMATION

Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan (2)	Lead finish/ Ball material (6)	MSL Peak Temp (3)	Op Temp (°C)	Device Marking (4/5)	Samples
TLV431ACDBVR	ACTIVE	SOT-23	DBV	5	3000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	0 to 70	(YAC6, YACC, YACI, YACN) (YACG, YA CL, YACS)	<a href="#">Samples</a>
TLV431ACDBVRE4	ACTIVE	SOT-23	DBV	5	3000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	0 to 70	YACI	<a href="#">Samples</a>
TLV431ACDBVRG4	ACTIVE	SOT-23	DBV	5	3000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	0 to 70	YACI	<a href="#">Samples</a>
TLV431ACDBVT	ACTIVE	SOT-23	DBV	5	250	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	0 to 70	(YAC6, YACC, YACI) (YACG, YA CL, YACS)	<a href="#">Samples</a>
TLV431ACDBVTG4	ACTIVE	SOT-23	DBV	5	250	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	0 to 70	YACI	<a href="#">Samples</a>
TLV431ACDBZR	ACTIVE	SOT-23	DBZ	3	3000	RoHS & Green	NIPDAU   NIPDAUAG	Level-1-260C-UNLIM	0 to 70	(YAC6, YAC8, YACB) (YAC3, YACS, YACU)	<a href="#">Samples</a>
TLV431ACDBZRG4	ACTIVE	SOT-23	DBZ	3	3000	RoHS & Green	NIPDAUAG	Level-1-260C-UNLIM	0 to 70	YAC6 YACS	<a href="#">Samples</a>
TLV431ACLP	ACTIVE	TO-92	LP	3	1000	RoHS & Green	SN	N / A for Pkg Type	0 to 70	V431AC	<a href="#">Samples</a>
TLV431ACLPE3	ACTIVE	TO-92	LP	3	1000	RoHS & Green	SN	N / A for Pkg Type	0 to 70	V431AC	<a href="#">Samples</a>
TLV431ACLPR	ACTIVE	TO-92	LP	3	2000	RoHS & Green	SN	N / A for Pkg Type	0 to 70	V431AC	<a href="#">Samples</a>
TLV431AID	ACTIVE	SOIC	D	8	75	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	TY431A	<a href="#">Samples</a>
TLV431AIDBVR	ACTIVE	SOT-23	DBV	5	3000	RoHS & Green	NIPDAU   SN	Level-1-260C-UNLIM	-40 to 85	(YAI6, YAIC, YAI, YAIN) (YAIG, YAIL, YAIS)	<a href="#">Samples</a>
TLV431AIDBVRE4	ACTIVE	SOT-23	DBV	5	3000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	YAIL	<a href="#">Samples</a>
TLV431AIDBVRG4	ACTIVE	SOT-23	DBV	5	3000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	YAIL	<a href="#">Samples</a>
TLV431AIDBVT	ACTIVE	SOT-23	DBV	5	250	RoHS & Green	NIPDAU   SN	Level-1-260C-UNLIM	-40 to 85	(YAI6, YAIC, YAI)	<a href="#">Samples</a>

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										(YAIG, YAIL, YAIS)	
TLV431AIDBVTG4	ACTIVE	SOT-23	DBV	5	250	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	YAIL	<a href="#">Samples</a>
TLV431AIDBZR	ACTIVE	SOT-23	DBZ	3	3000	RoHS & Green	NIPDAU   NIPDAUAG	Level-1-260C-UNLIM	-40 to 85	(YAI6, YAI8, YAIB) (YAI3, YAIS, YAIU)	<a href="#">Samples</a>
TLV431AIDBZRG4	ACTIVE	SOT-23	DBZ	3	3000	RoHS & Green	NIPDAUAG	Level-1-260C-UNLIM	-40 to 85	YAI6 YAIS	<a href="#">Samples</a>
TLV431AIDE4	ACTIVE	SOIC	D	8	75	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	TY431A	<a href="#">Samples</a>
TLV431AIDR	ACTIVE	SOIC	D	8	2500	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	TY431A	<a href="#">Samples</a>
TLV431AIDRE4	ACTIVE	SOIC	D	8	2500	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	TY431A	<a href="#">Samples</a>
TLV431AILP	ACTIVE	TO-92	LP	3	1000	RoHS & Green	SN	N / A for Pkg Type	-40 to 85	V431AI	<a href="#">Samples</a>
TLV431AILPE3	ACTIVE	TO-92	LP	3	1000	RoHS & Green	SN	N / A for Pkg Type	-40 to 85	V431AI	<a href="#">Samples</a>
TLV431AILPM	ACTIVE	TO-92	LP	3	2000	RoHS & Green	SN	N / A for Pkg Type	-40 to 85	V431AI	<a href="#">Samples</a>
TLV431AILPR	ACTIVE	TO-92	LP	3	2000	RoHS & Green	SN	N / A for Pkg Type	-40 to 85	V431AI	<a href="#">Samples</a>
TLV431AILPRE3	ACTIVE	TO-92	LP	3	2000	RoHS & Green	SN	N / A for Pkg Type	-40 to 85	V431AI	<a href="#">Samples</a>
TLV431AQPK	ACTIVE	SOT-89	PK	3	1000	RoHS & Green	SN	Level-2-260C-1 YEAR	-40 to 125	VA	<a href="#">Samples</a>
TLV431AQPKG3	ACTIVE	SOT-89	PK	3	1000	RoHS & Green	SN	Level-2-260C-1 YEAR	-40 to 125	VA	<a href="#">Samples</a>
TLV431BCDBVR	ACTIVE	SOT-23	DBV	5	3000	RoHS & Green	NIPDAU   SN	Level-1-260C-UNLIM	0 to 70	(Y3GG, Y3GJ, Y3GU)	<a href="#">Samples</a>
TLV431BCDBVRG4	ACTIVE	SOT-23	DBV	5	3000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	0 to 70	Y3GG	<a href="#">Samples</a>
TLV431BCDBVT	ACTIVE	SOT-23	DBV	5	250	RoHS & Green	NIPDAU   SN	Level-1-260C-UNLIM	0 to 70	(Y3GG, Y3GJ, Y3GU)	<a href="#">Samples</a>
TLV431BCDBVTG4	ACTIVE	SOT-23	DBV	5	250	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	0 to 70	Y3GG	<a href="#">Samples</a>
TLV431BCDBZR	ACTIVE	SOT-23	DBZ	3	3000	RoHS & Green	NIPDAU   NIPDAUAG	Level-1-260C-UNLIM	0 to 70	(Y3G3, Y3GS, Y3GU)	<a href="#">Samples</a>

Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan (2)	Lead finish/ Ball material (6)	MSL Peak Temp (3)	Op Temp (°C)	Device Marking (4/5)	Samples
TLV431BCDBZRG4	ACTIVE	SOT-23	DBZ	3	3000	RoHS & Green	NIPDAUAG	Level-1-260C-UNLIM	0 to 70	(Y3G3, Y3GS, Y3GU)	<a href="#">Samples</a>
TLV431BCDBZT	ACTIVE	SOT-23	DBZ	3	250	RoHS & Green	NIPDAU   NIPDAUAG	Level-1-260C-UNLIM	0 to 70	(Y3GS, Y3GU)	<a href="#">Samples</a>
TLV431BCDCKR	ACTIVE	SC70	DCK	6	3000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	0 to 70	YEU	<a href="#">Samples</a>
TLV431BCDCKT	ACTIVE	SC70	DCK	6	250	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	0 to 70	YEU	<a href="#">Samples</a>
TLV431BCLP	ACTIVE	TO-92	LP	3	1000	RoHS & Green	SN	N / A for Pkg Type	0 to 70	TV431B	<a href="#">Samples</a>
TLV431BCLPR	ACTIVE	TO-92	LP	3	2000	RoHS & Green	SN	N / A for Pkg Type	0 to 70	TV431B	<a href="#">Samples</a>
TLV431BCPK	ACTIVE	SOT-89	PK	3	1000	RoHS & Green	SN	Level-2-260C-1 YEAR	0 to 70	VE	<a href="#">Samples</a>
TLV431BIDBVR	ACTIVE	SOT-23	DBV	5	3000	RoHS & Green	NIPDAU   SN	Level-1-260C-UNLIM	-40 to 85	(Y3FJ, Y3FU)	<a href="#">Samples</a>
TLV431BIDBVRG4	ACTIVE	SOT-23	DBV	5	3000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	(Y3FJ, Y3FU)	<a href="#">Samples</a>
TLV431BIDBVT	ACTIVE	SOT-23	DBV	5	250	RoHS & Green	NIPDAU   SN	Level-1-260C-UNLIM	-40 to 85	(Y3FJ, Y3FU)	<a href="#">Samples</a>
TLV431BIDBZR	ACTIVE	SOT-23	DBZ	3	3000	RoHS & Green	NIPDAU   NIPDAUAG	Level-1-260C-UNLIM	-40 to 85	(Y3F3, Y3FS, Y3FU)	<a href="#">Samples</a>
TLV431BIDBZRG4	ACTIVE	SOT-23	DBZ	3	3000	RoHS & Green	NIPDAU   NIPDAUAG	Level-1-260C-UNLIM	-40 to 85	(Y3F3, Y3FS)	<a href="#">Samples</a>
TLV431BIDBZT	ACTIVE	SOT-23	DBZ	3	250	RoHS & Green	NIPDAU   NIPDAUAG	Level-1-260C-UNLIM	-40 to 85	(Y3FS, Y3FU)	<a href="#">Samples</a>
TLV431BIDCKR	ACTIVE	SC70	DCK	6	3000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	YFU	<a href="#">Samples</a>
TLV431BIDCKT	ACTIVE	SC70	DCK	6	250	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	YFU	<a href="#">Samples</a>
TLV431BILP	ACTIVE	TO-92	LP	3	1000	RoHS & Green	SN	N / A for Pkg Type	-40 to 85	TY431B	<a href="#">Samples</a>
TLV431BILPR	ACTIVE	TO-92	LP	3	2000	RoHS & Green	SN	N / A for Pkg Type	-40 to 85	TY431B	<a href="#">Samples</a>
TLV431BILPRE3	ACTIVE	TO-92	LP	3	2000	RoHS & Green	SN	N / A for Pkg Type	-40 to 85	TY431B	<a href="#">Samples</a>
TLV431BIPK	ACTIVE	SOT-89	PK	3	1000	RoHS & Green	SN	Level-2-260C-1 YEAR	-40 to 85	VF	<a href="#">Samples</a>
TLV431BQDBVR	ACTIVE	SOT-23	DBV	5	3000	RoHS & Green	NIPDAU   SN	Level-1-260C-UNLIM	-40 to 125	(Y3HJ, Y3HU)	<a href="#">Samples</a>
TLV431BQDBVRE4	ACTIVE	SOT-23	DBV	5	3000	RoHS & Green	SN	Level-1-260C-UNLIM	-40 to 125	(Y3HJ, Y3HU)	<a href="#">Samples</a>

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TLV431BQDBVT	ACTIVE	SOT-23	DBV	5	250	RoHS & Green	NIPDAU   SN	Level-1-260C-UNLIM	-40 to 125	(Y3HJ, Y3HU)	<a href="#">Samples</a>
TLV431BQDBZR	ACTIVE	SOT-23	DBZ	3	3000	RoHS & Green	NIPDAU   NIPDAUAG	Level-1-260C-UNLIM	-40 to 125	(Y3H3, Y3HS, Y3HU)	<a href="#">Samples</a>
TLV431BQDBZRG4	ACTIVE	SOT-23	DBZ	3	3000	RoHS & Green	NIPDAUAG	Level-1-260C-UNLIM	-40 to 125	Y3HS	<a href="#">Samples</a>
TLV431BQDBZT	ACTIVE	SOT-23	DBZ	3	250	RoHS & Green	NIPDAU   NIPDAUAG	Level-1-260C-UNLIM	-40 to 125	(Y3HS, Y3HU)	<a href="#">Samples</a>
TLV431BQDCKR	ACTIVE	SC70	DCK	6	3000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 125	YGU	<a href="#">Samples</a>
TLV431BQDCKT	ACTIVE	SC70	DCK	6	250	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 125	YGU	<a href="#">Samples</a>
TLV431BQLP	ACTIVE	TO-92	LP	3	1000	RoHS & Green	SN	N / A for Pkg Type	-40 to 125	TQ431B	<a href="#">Samples</a>
TLV431BQLPR	ACTIVE	TO-92	LP	3	2000	RoHS & Green	SN	N / A for Pkg Type	-40 to 125	TQ431B	<a href="#">Samples</a>
TLV431BQPK	ACTIVE	SOT-89	PK	3	1000	RoHS & Green	SN	Level-2-260C-1 YEAR	-40 to 125	V6	<a href="#">Samples</a>
TLV431CDBVR	ACTIVE	SOT-23	DBV	5	3000	RoHS & Green	NIPDAU   SN	Level-1-260C-UNLIM	0 to 70	(Y3C6, Y3CI) (Y3CG, Y3CS)	<a href="#">Samples</a>
TLV431CDBVRG4	ACTIVE	SOT-23	DBV	5	3000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	0 to 70	Y3CI	<a href="#">Samples</a>
TLV431CDBVT	ACTIVE	SOT-23	DBV	5	250	RoHS & Green	NIPDAU   SN	Level-1-260C-UNLIM	0 to 70	(Y3C6, Y3CI) (Y3CG, Y3CS)	<a href="#">Samples</a>
TLV431CDBVTG4	ACTIVE	SOT-23	DBV	5	250	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	0 to 70	Y3CI	<a href="#">Samples</a>
TLV431CDBZR	ACTIVE	SOT-23	DBZ	3	3000	RoHS & Green	NIPDAU   NIPDAUAG	Level-1-260C-UNLIM	0 to 70	(Y3C6, Y3C8, Y3CB) (Y3C3, Y3CS, Y3CU)	<a href="#">Samples</a>
TLV431CDBZRG4	ACTIVE	SOT-23	DBZ	3	3000	RoHS & Green	NIPDAUAG	Level-1-260C-UNLIM	0 to 70	(Y3C6, Y3C8, Y3CB) (Y3C3, Y3CS, Y3CU)	<a href="#">Samples</a>
TLV431CLP	ACTIVE	TO-92	LP	3	1000	RoHS & Green	SN	N / A for Pkg Type	0 to 70	V431C	<a href="#">Samples</a>
TLV431CLPE3	ACTIVE	TO-92	LP	3	1000	RoHS & Green	SN	N / A for Pkg Type	0 to 70	V431C	<a href="#">Samples</a>
TLV431CLPR	ACTIVE	TO-92	LP	3	2000	RoHS & Green	SN	N / A for Pkg Type	0 to 70	V431C	<a href="#">Samples</a>

Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan (2)	Lead finish/ Ball material (6)	MSL Peak Temp (3)	Op Temp (°C)	Device Marking (4/5)	Samples
TLV431IDBVR	ACTIVE	SOT-23	DBV	5	3000	RoHS & Green	NIPDAU   SN	Level-1-260C-UNLIM	-40 to 85	(Y3I6, Y3I1) (Y3IG, Y3IS)	<a href="#">Samples</a>
TLV431IDBVRG4	ACTIVE	SOT-23	DBV	5	3000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	Y3I1	<a href="#">Samples</a>
TLV431IDBVT	ACTIVE	SOT-23	DBV	5	250	RoHS & Green	NIPDAU   SN	Level-1-260C-UNLIM	-40 to 85	(Y3I6, Y3I1) (Y3IG, Y3IS)	<a href="#">Samples</a>
TLV431IDBVTG4	ACTIVE	SOT-23	DBV	5	250	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	Y3I1	<a href="#">Samples</a>
TLV431IDBZR	ACTIVE	SOT-23	DBZ	3	3000	RoHS & Green	NIPDAU   NIPDAUAG	Level-1-260C-UNLIM	-40 to 85	(Y3I6, Y3IB) (Y3IS, Y3IU)	<a href="#">Samples</a>
TLV431IDBZRG4	ACTIVE	SOT-23	DBZ	3	3000	RoHS & Green	NIPDAUAG	Level-1-260C-UNLIM	-40 to 85	Y3I6 Y3IS	<a href="#">Samples</a>
TLV431ILP	ACTIVE	TO-92	LP	3	1000	RoHS & Green	SN	N / A for Pkg Type	-40 to 85	V4311	<a href="#">Samples</a>
TLV431ILPE3	ACTIVE	TO-92	LP	3	1000	RoHS & Green	SN	N / A for Pkg Type	-40 to 85	V4311	<a href="#">Samples</a>
TLV431ILPR	ACTIVE	TO-92	LP	3	2000	RoHS & Green	SN	N / A for Pkg Type	-40 to 85	V4311	<a href="#">Samples</a>
TLV431QPK	ACTIVE	SOT-89	PK	3	1000	RoHS & Green	SN	Level-2-260C-1 YEAR	-40 to 125	VB	<a href="#">Samples</a>
TLV431QPKG3	ACTIVE	SOT-89	PK	3	1000	RoHS & Green	SN	Level-2-260C-1 YEAR	-40 to 125	VB	<a href="#">Samples</a>

(1) The marketing status values are defined as follows:

**ACTIVE:** Product device recommended for new designs.

**LIFEBUY:** TI has announced that the device will be discontinued, and a lifetime-buy period is in effect.

**NRND:** Not recommended for new designs. Device is in production to support existing customers, but TI does not recommend using this part in a new design.

**PREVIEW:** Device has been announced but is not in production. Samples may or may not be available.

**OBSELETE:** TI has discontinued the production of the device.

(2) **RoHS:** TI defines "RoHS" to mean semiconductor products that are compliant with the current EU RoHS requirements for all 10 RoHS substances, including the requirement that RoHS substance do not exceed 0.1% by weight in homogeneous materials. Where designed to be soldered at high temperatures, "RoHS" products are suitable for use in specified lead-free processes. TI may reference these types of products as "Pb-Free".

**RoHS Exempt:** TI defines "RoHS Exempt" to mean products that contain lead but are compliant with EU RoHS pursuant to a specific EU RoHS exemption.

**Green:** TI defines "Green" to mean the content of Chlorine (Cl) and Bromine (Br) based flame retardants meet JS709B low halogen requirements of <=1000ppm threshold. Antimony trioxide based flame retardants must also meet the <=1000ppm threshold requirement.

(3) MSL, Peak Temp. - The Moisture Sensitivity Level rating according to the JEDEC industry standard classifications, and peak solder temperature.

- (4) There may be additional marking, which relates to the logo, the lot trace code information, or the environmental category on the device.
- (5) Multiple Device Markings will be inside parentheses. Only one Device Marking contained in parentheses and separated by a "~" will appear on a device. If a line is indented then it is a continuation of the previous line and the two combined represent the entire Device Marking for that device.
- (6) Lead finish/Ball material - Orderable Devices 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.

**Important Information and Disclaimer:**The information provided on this page represents TI's knowledge and belief as of the date that it is provided. TI bases its knowledge and belief on information provided by third parties, and makes no representation or warranty as to the accuracy of such information. Efforts are underway to better integrate information from third parties. TI has taken and continues to take reasonable steps to provide representative and accurate information but may not have conducted destructive testing or chemical analysis on incoming materials and chemicals. TI and TI suppliers consider certain information to be proprietary, and thus CAS numbers and other limited information may not be available for release.

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**OTHER QUALIFIED VERSIONS OF TLV431A, TLV431B :**

- Automotive : [TLV431A-Q1](#), [TLV431B-Q1](#)

NOTE: Qualified Version Definitions:

- Automotive - Q100 devices qualified for high-reliability automotive applications targeting zero defects