

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)	Samples
TLV431ACDBVR1G4	ACTIVE	SOT-23	DBV	5	3000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	0 to 70	(YAC6, YACC, YACI) (YACG, YA CL, YACS)	Samples
TLV431ACDBVRG4	OBSOLETE	SOT-23	DBV	5		TBD	Call TI	Call TI	0 to 70	YACI	
TLV431ACDBVT	ACTIVE	SOT-23	DBV	5	250	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	0 to 70	(YAC6, YACC, YACI) (YACG, YA CL, YACS)	Samples
TLV431ACDBZR	ACTIVE	SOT-23	DBZ	3	3000	RoHS & Green	NIPDAU SN NIPDAUAG	Level-1-260C-UNLIM	0 to 70	(YAC6, YAC8, YACB, YACS) (YAC3, YACS, YACU)	Samples
TLV431ACDBZRG4	ACTIVE	SOT-23	DBZ	3	3000	RoHS & Green	NIPDAUAG	Level-1-260C-UNLIM	0 to 70	YAC6 YACS	Samples
TLV431ACL P	ACTIVE	TO-92	LP	3	1000	RoHS & Green	SN	N / A for Pkg Type	0 to 70	V431AC	Samples
TLV431ACLPR	ACTIVE	TO-92	LP	3	2000	RoHS & Green	SN	N / A for Pkg Type	0 to 70	V431AC	Samples
TLV431AID	OBSOLETE	SOIC	D	8		TBD	Call TI	Call TI	-40 to 85	TY431A	
TLV431AIDBVR	ACTIVE	SOT-23	DBV	5	3000	RoHS & Green	NIPDAU SN	Level-1-260C-UNLIM	-40 to 85	(YAI6, YAIC, YAII, YAIN) (YAIG, YAIL, YAIS)	Samples
TLV431AIDBVR1G4	ACTIVE	SOT-23	DBV	5	3000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	(YAI6, YAIC) (YAIL, YAIS)	Samples
TLV431AIDBVRG4	OBSOLETE	SOT-23	DBV	5		TBD	Call TI	Call TI	-40 to 85	YAI I	
TLV431AIDBVT	ACTIVE	SOT-23	DBV	5	250	RoHS & Green	NIPDAU SN	Level-1-260C-UNLIM	-40 to 85	(YAI6, YAIC, YAI I) (YAIG, YAIL, YAIS)	Samples

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TLV431AIDBZR	ACTIVE	SOT-23	DBZ	3	3000	RoHS & Green	NIPDAU SN NIPDAUAG	Level-1-260C-UNLIM	-40 to 85	(YAI6, YAI8, YAIB, YAIS) (YAI3, YAIS, YAIU)	Samples
TLV431AIDBZRG4	ACTIVE	SOT-23	DBZ	3	3000	RoHS & Green	NIPDAUAG	Level-1-260C-UNLIM	-40 to 85	YAI6 YAIS	Samples
TLV431AIDE4	NRND	SOIC	D	8	75	TBD	Call TI	Call TI	-40 to 85		
TLV431AIDR	ACTIVE	SOIC	D	8	2500	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	TY431A	Samples
TLV431AIDRE4	NRND	SOIC	D	8	2500	TBD	Call TI	Call TI	-40 to 85		
TLV431AILP	OBSOLETE	TO-92	LP	3		TBD	Call TI	Call TI	-40 to 85	V431AI	
TLV431AILPM	ACTIVE	TO-92	LP	3	2000	RoHS & Green	SN	N / A for Pkg Type	-40 to 85	V431AI	Samples
TLV431AILPR	ACTIVE	TO-92	LP	3	2000	RoHS & Green	SN	N / A for Pkg Type	-40 to 85	V431AI	Samples
TLV431AQPK	ACTIVE	SOT-89	PK	3	1000	RoHS & Green	SN	Level-2-260C-1 YEAR	-40 to 125	VA	Samples
TLV431BCDBVR	ACTIVE	SOT-23	DBV	5	3000	RoHS & Green	NIPDAU SN	Level-1-260C-UNLIM	0 to 70	(Y3GG, Y3GJ, Y3GU)	Samples
TLV431BCDBVT	ACTIVE	SOT-23	DBV	5	250	RoHS & Green	NIPDAU SN	Level-1-260C-UNLIM	0 to 70	(Y3GG, Y3GJ, Y3GU)	Samples
TLV431BCDBZR	ACTIVE	SOT-23	DBZ	3	3000	RoHS & Green	NIPDAU SN NIPDAUAG	Level-1-260C-UNLIM	0 to 70	(Y3G3, Y3GS, Y3GU)	Samples
TLV431BCDBZT	ACTIVE	SOT-23	DBZ	3	250	RoHS & Green	NIPDAU SN NIPDAUAG	Level-1-260C-UNLIM	0 to 70	(Y3GS, Y3GU)	Samples
TLV431BCDBZTG4	ACTIVE	SOT-23	DBZ	3	250	RoHS & Green	NIPDAUAG	Level-1-260C-UNLIM	0 to 70	Y3GS	Samples
TLV431BCDCKR	ACTIVE	SC70	DCK	6	3000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	0 to 70	YEU	Samples
TLV431BCDCKT	ACTIVE	SC70	DCK	6	250	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	0 to 70	YEU	Samples
TLV431BCLP	OBSOLETE	TO-92	LP	3		TBD	Call TI	Call TI	0 to 70	TV431B	
TLV431BCLPR	ACTIVE	TO-92	LP	3	2000	RoHS & Green	SN	N / A for Pkg Type	0 to 70	TV431B	Samples
TLV431BCPK	ACTIVE	SOT-89	PK	3	1000	RoHS & Green	SN	Level-2-260C-1 YEAR	0 to 70	VE	Samples
TLV431BIDBVR	ACTIVE	SOT-23	DBV	5	3000	RoHS & Green	NIPDAU SN	Level-1-260C-UNLIM	-40 to 85	(Y3FJ, Y3FU)	Samples

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TLV431BIDBVT	ACTIVE	SOT-23	DBV	5	250	RoHS & Green	NIPDAU SN	Level-1-260C-UNLIM	-40 to 85	(Y3FJ, Y3FU)	Samples
TLV431BIDBZR	ACTIVE	SOT-23	DBZ	3	3000	RoHS & Green	NIPDAU SN NIPDAUAG	Level-1-260C-UNLIM	-40 to 85	(Y3F3, Y3FS, Y3FU)	Samples
TLV431BIDBZRG4	ACTIVE	SOT-23	DBZ	3	3000	RoHS & Green	NIPDAU NIPDAUAG	Level-1-260C-UNLIM	-40 to 85	(Y3F3, Y3FS)	Samples
TLV431BIDBZT	ACTIVE	SOT-23	DBZ	3	250	RoHS & Green	NIPDAU SN NIPDAUAG	Level-1-260C-UNLIM	-40 to 85	(Y3FS, Y3FU)	Samples
TLV431BIDCKR	ACTIVE	SC70	DCK	6	3000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	YFU	Samples
TLV431BIDCKRG4	ACTIVE	SC70	DCK	6	3000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM		YFU	Samples
TLV431BIDCKT	ACTIVE	SC70	DCK	6	250	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	YFU	Samples
TLV431BILP	OBSOLETE	TO-92	LP	3		TBD	Call TI	Call TI	-40 to 85	TY431B	
TLV431BILPR	ACTIVE	TO-92	LP	3	2000	RoHS & Green	SN	N / A for Pkg Type	-40 to 85	TY431B	Samples
TLV431BIPK	ACTIVE	SOT-89	PK	3	1000	RoHS & Green	SN	Level-2-260C-1 YEAR	-40 to 85	VF	Samples
TLV431BQDBVR	ACTIVE	SOT-23	DBV	5	3000	RoHS & Green	NIPDAU SN	Level-1-260C-UNLIM	-40 to 125	(Y3HJ, Y3HU)	Samples
TLV431BQDBVRE4	ACTIVE	SOT-23	DBV	5	3000	TBD	Call TI	Call TI	-40 to 125		Samples
TLV431BQDBVRG4	ACTIVE	SOT-23	DBV	5	3000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 125	Y3HU	Samples
TLV431BQDBVT	ACTIVE	SOT-23	DBV	5	250	RoHS & Green	NIPDAU SN	Level-1-260C-UNLIM	-40 to 125	(Y3HJ, Y3HU)	Samples
TLV431BQDBZR	ACTIVE	SOT-23	DBZ	3	3000	RoHS & Green	NIPDAU SN NIPDAUAG	Level-1-260C-UNLIM	-40 to 125	(Y3H3, Y3HS, Y3HU)	Samples
TLV431BQDBZRG4	ACTIVE	SOT-23	DBZ	3	3000	RoHS & Green	NIPDAU NIPDAUAG	Level-1-260C-UNLIM	-40 to 125	Y3HS	Samples
TLV431BQDBZT	ACTIVE	SOT-23	DBZ	3	250	RoHS & Green	NIPDAU SN NIPDAUAG	Level-1-260C-UNLIM	-40 to 125	(Y3HS, Y3HU)	Samples
TLV431BQDCKR	ACTIVE	SC70	DCK	6	3000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 125	YGU	Samples
TLV431BQDCKT	ACTIVE	SC70	DCK	6	250	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 125	YGU	Samples
TLV431BQLP	OBSOLETE	TO-92	LP	3		TBD	Call TI	Call TI	-40 to 125	TQ431B	
TLV431BQLPR	ACTIVE	TO-92	LP	3	2000	RoHS & Green	SN	N / A for Pkg Type	-40 to 125	TQ431B	Samples

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TLV431BQPK	ACTIVE	SOT-89	PK	3	1000	RoHS & Green	SN	Level-2-260C-1 YEAR	-40 to 125	V6	Samples
TLV431CDBVR	ACTIVE	SOT-23	DBV	5	3000	RoHS & Green	NIPDAU SN	Level-1-260C-UNLIM	0 to 70	(Y3C6, Y3CI) (Y3CG, Y3CS)	Samples
TLV431CDBVRG4	OBSOLETE	SOT-23	DBV	5		TBD	Call TI	Call TI	0 to 70	Y3CI	
TLV431CDBVT	ACTIVE	SOT-23	DBV	5	250	RoHS & Green	NIPDAU SN	Level-1-260C-UNLIM	0 to 70	(Y3C6, Y3CI) (Y3CG, Y3CS)	Samples
TLV431CDBZR	ACTIVE	SOT-23	DBZ	3	3000	RoHS & Green	NIPDAU SN NIPDAUAG	Level-1-260C-UNLIM	0 to 70	(Y3C6, Y3C8, Y3CB, Y3CS) (Y3C3, Y3CS, Y3CU)	Samples
TLV431CLP	OBSOLETE	TO-92	LP	3		TBD	Call TI	Call TI	0 to 70	V431C	
TLV431CLPR	ACTIVE	TO-92	LP	3	2000	RoHS & Green	SN	N / A for Pkg Type	0 to 70	V431C	Samples
TLV431IDBVR	ACTIVE	SOT-23	DBV	5	3000	RoHS & Green	NIPDAU SN	Level-1-260C-UNLIM	-40 to 85	(Y3I6, Y3II) (Y3IG, Y3IS)	Samples
TLV431IDBVR1G4	ACTIVE	SOT-23	DBV	5	3000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	Y3I6 Y3IS	Samples
TLV431IDBVRG4	OBSOLETE	SOT-23	DBV	5		TBD	Call TI	Call TI	-40 to 85	Y3II	
TLV431IDBVT	ACTIVE	SOT-23	DBV	5	250	RoHS & Green	NIPDAU SN	Level-1-260C-UNLIM	-40 to 85	(Y3I6, Y3II) (Y3IG, Y3IS)	Samples
TLV431IDBZR	ACTIVE	SOT-23	DBZ	3	3000	RoHS & Green	NIPDAU SN NIPDAUAG	Level-1-260C-UNLIM	-40 to 85	(Y3I6, Y3IB, Y3IS) (Y3IU, Y3IU)	Samples
TLV431IDBZRG4	ACTIVE	SOT-23	DBZ	3	3000	RoHS & Green	NIPDAUAG	Level-1-260C-UNLIM	-40 to 85	Y3I6 Y3IS	Samples
TLV431ILP	OBSOLETE	TO-92	LP	3		TBD	Call TI	Call TI	-40 to 85	V431I	
TLV431ILPR	ACTIVE	TO-92	LP	3	2000	RoHS & Green	SN	N / A for Pkg Type	-40 to 85	V431I	Samples
TLV431QPK	ACTIVE	SOT-89	PK	3	1000	RoHS & Green	SN	Level-2-260C-1 YEAR	-40 to 125	VB	Samples

⁽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.

OBSOLETE: 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 ≤ 1000 ppm threshold. Antimony trioxide based flame retardants must also meet the ≤ 1000 ppm 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.

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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