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31-Oct-2025

PACKAGING INFORMATION

Orderable part number	Status (1)	Material type	Package Pins	Package qty Carrier	RoHS (3)	Lead finish/ Ball material	MSL rating/ Peak reflow	Op temp (°C)	Part marking (6)
TUSB2046BIRHBR	Active	Production	VQFN (RHB) 32	3000 LARGE T&R	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	TUSB 2046BI
TUSB2046BIRHBR.A	Active	Production	VQFN (RHB) 32	3000 LARGE T&R	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	TUSB 2046BI
TUSB2046BIRHBRG4	Active	Production	VQFN (RHB) 32	3000 LARGE T&R	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	TUSB 2046BI
TUSB2046BIRHBT	Active	Production	VQFN (RHB) 32	250 SMALL T&R	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	TUSB 2046BI
TUSB2046BIRHBT.A	Active	Production	VQFN (RHB) 32	250 SMALL T&R	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	TUSB 2046BI
TUSB2046BIRHBTG4	Active	Production	VQFN (RHB) 32	250 SMALL T&R	Yes	NIPDAU	Level-2-260C-1 YEAR	-40 to 85	TUSB 2046BI
TUSB2046BVF	Active	Production	LQFP (VF) 32	250 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	0 to 70	TUSB2046B
TUSB2046BVF.A	Active	Production	LQFP (VF) 32	250 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	0 to 70	TUSB2046B
TUSB2046BVFG4	Active	Production	LQFP (VF) 32	250 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	0 to 70	TUSB2046B
TUSB2046BVFR	Active	Production	LQFP (VF) 32	1000 LARGE T&R	Yes	NIPDAU	Level-3-260C-168 HR	0 to 70	TUSB2046B
TUSB2046BVFR.A	Active	Production	LQFP (VF) 32	1000 LARGE T&R	Yes	NIPDAU	Level-3-260C-168 HR	0 to 70	TUSB2046B
TUSB2046BVFRG4	Active	Production	LQFP (VF) 32	1000 LARGE T&R	Yes	NIPDAU	Level-3-260C-168 HR	0 to 70	TUSB2046B
TUSB2046IBVF	Active	Production	LQFP (VF) 32	250 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 85	TUSB2046I
TUSB2046IBVF.A	Active	Production	LQFP (VF) 32	250 JEDEC TRAY (10+1)	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 85	TUSB2046I
TUSB2046IBVFR	Active	Production	LQFP (VF) 32	1000 LARGE T&R	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 85	TUSB2046I
TUSB2046IBVFR.A	Active	Production	LQFP (VF) 32	1000 LARGE T&R	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 85	TUSB2046I
TUSB2046IBVFRG4	Active	Production	LQFP (VF) 32	1000 LARGE T&R	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 85	TUSB2046I
TUSB2046IBVFRG4.A	Active	Production	LQFP (VF) 32	1000 LARGE T&R	Yes	NIPDAU	Level-3-260C-168 HR	-40 to 85	TUSB2046I

⁽¹⁾ Status: For more details on status, see our product life cycle.



PACKAGE OPTION ADDENDUM

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- (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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