

## PACKAGING INFORMATION

Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan (2)	Lead finish/ Ball material	MSL Peak Temp (3)	Op Temp (°C)	Device Marking (4/5)	Samples
TL1963A-15DCQR	ACTIVE	SOT-223	DCQ	6	2500	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 125	1963A-15	Samples
TL1963A-15DCQT	ACTIVE	SOT-223	DCQ	6	250	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 125	1963A-15	Samples
TL1963A-15DCYR	ACTIVE	SOT-223	DCY	4	2500	RoHS & Green	SN	Level-2-260C-1 YEAR	-40 to 125	TF	Samples
TL1963A-15DCYT	ACTIVE	SOT-223	DCY	4	250	RoHS & Green	SN	Level-2-260C-1 YEAR	-40 to 125	TF	Samples
TL1963A-15KTTR	ACTIVE	DDPAK/ TO-263	КТТ	5	500	RoHS & Green	SN	Level-3-245C-168 HR	-40 to 125	TL1963A-15	Samples
TL1963A-18DCQR	ACTIVE	SOT-223	DCQ	6	2500	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 125	1963A-18	Samples
TL1963A-18DCQT	ACTIVE	SOT-223	DCQ	6	250	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 125	1963A-18	Samples
TL1963A-18DCYR	ACTIVE	SOT-223	DCY	4	2500	RoHS & Green	SN	Level-2-260C-1 YEAR	-40 to 125	TG	Samples
TL1963A-18KTTR	ACTIVE	DDPAK/ TO-263	КТТ	5	500	RoHS & Green	SN	Level-3-245C-168 HR	-40 to 125	TL1963A-18	Samples
TL1963A-25DCQR	ACTIVE	SOT-223	DCQ	6	2500	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 125	1963A-25	Samples
TL1963A-25DCQT	ACTIVE	SOT-223	DCQ	6	250	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 125	1963A-25	Samples
TL1963A-25DCYR	ACTIVE	SOT-223	DCY	4	2500	RoHS & Green	SN	Level-2-260C-1 YEAR	-40 to 125	TH	Samples
TL1963A-25DCYT	ACTIVE	SOT-223	DCY	4	250	RoHS & Green	SN	Level-2-260C-1 YEAR	-40 to 125	TH	Samples
TL1963A-25KTTR	ACTIVE	DDPAK/ TO-263	КТТ	5	500	RoHS & Green	SN	Level-3-245C-168 HR	-40 to 125	TL1963A-25	Samples
TL1963A-33DCQR	ACTIVE	SOT-223	DCQ	6	2500	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 125	1963A-33	Samples
TL1963A-33DCQRG4	ACTIVE	SOT-223	DCQ	6	2500	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 125	1963A-33	Samples
TL1963A-33DCQT	ACTIVE	SOT-223	DCQ	6	250	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 125	1963A-33	Samples
TL1963A-33DCYR	ACTIVE	SOT-223	DCY	4	2500	RoHS & Green	SN	Level-2-260C-1 YEAR	-40 to 125	TJ	Samples
TL1963A-33KTTR	ACTIVE	DDPAK/ TO-263	КТТ	5	500	RoHS & Green	SN	Level-3-245C-168 HR	-40 to 125	TL1963A-33	Samples

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
TL1963ADCQR	ACTIVE	SOT-223	DCQ	6	2500	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 125	TL1963A	Samples
TL1963ADCQRG4	ACTIVE	SOT-223	DCQ	6	2500	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 125	TL1963A	Samples
TL1963ADCQT	ACTIVE	SOT-223	DCQ	6	250	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 125	TL1963A	Samples
TL1963AKTTR	ACTIVE	DDPAK/ TO-263	KTT	5	500	RoHS & Green	SN	Level-3-245C-168 HR	-40 to 125	TL1963A	Samples
TL1963AKTTRG3	ACTIVE	DDPAK/ TO-263	KTT	5	500	RoHS & Green	SN	Level-3-245C-168 HR	-40 to 125	TL1963A	Samples

<sup>(1)</sup> 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.

<sup>(2)</sup> 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 (CI) 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.

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

<sup>(4)</sup> There may be additional marking, which relates to the logo, the lot trace code information, or the environmental category on the device.

<sup>(5)</sup> 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.

<sup>(6)</sup> 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 TL1963A :

• Automotive : TL1963A-Q1

NOTE: Qualified Version Definitions:

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