

Product Brief

μ HVIC™ family

Now including IR44252L, IR44272L and IR44273L – single channel low-side drivers

The μ HVIC™ family is a collection of high-voltage and low-voltage basic building block ICs. These simple ICs are used in common circuit elements giving designers the flexibility to innovate. The family is a basic toolkit containing ICs for common circuit elements in power electronics.

These devices use Infineon's advanced high-voltage process to realize a compact, efficient and robust monolithic construction.

The family consists of seven devices

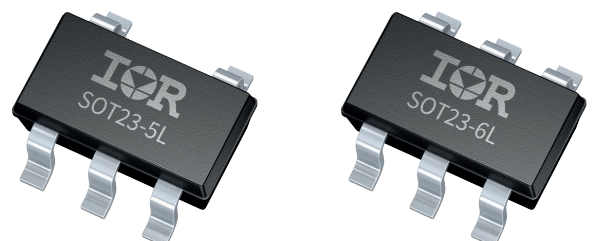
- › The new IR44252L, IR44272L and IR44273L are single channel low-side drivers with current capability up to 1.7 A. The IR442xxL devices integrate V_{CC} Undervoltage Lockout (UVLO) protection. The IR44272L features an enable pin and the IR44252L and IR4427L3L have dual output pins for easy PCB layout
- › The IRS25752L, IRS20752L and IRS10752L are single channel high-side drivers with a typical output sink current of 240 mA and typical output source current of 160 mA. The IRSxx725L devices are tailored for specific voltage classes: 600 V, 200 V and 100 V. Integrated V_{CC} and V_{BS} Undervoltage Lockout (UVLO) protection and low quiescent currents are standard features provided in the high-side drivers
- › IRS25751L is a 480 V high-voltage start-up IC, ideal for supplying initial start-up current to a low-voltage supply capacitor from a high-voltage bus. The IRS25751L provides easy and fast circuit start-up while consuming ultra-low stand-by current reducing stand-by losses and improving overall system efficiency

Main features and benefits

- › New building block IC family for popular circuit elements
- › Uses Infineon's advanced, robust high-voltage IC process
- › Tiny SOT23 package
- › Flexible & easy to use
- › Multi-platform use
- › Multi-application use
- › Fast time-to-market

Applications

- › General purpose electronics



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Product portfolio

Single channel low-side drivers

Part number	Channels	Source/sink current (typ) [A]	Propagation delay (typ) [ns]	Control inputs	UVLO [V]	Dual output pin	Package	MSL
IR44252L	1	0.3/0.55	50	IN	4.15 ... 5.0	✓	5-lead SOT23	1
IR44272L	1	1.7/1.5	50	IN, EN	4.15 ... 5.0		5-lead SOT23	1
IR44273L	1	1.7/1.5	50	IN	4.15 ... 5.0	✓	5-lead SOT23	1

Single channel high-side drivers

Part number	Voltage class [V]	Channels	Source/sink current (typ) [mA]	Propagation delay (typ) [ns]		Control inputs	UVLO (typ) [V]	Package	MSL
IRS25752L	600	1	160/240	140	215	IN	8 ... 9	6-lead SOT23	1
IRS20752L	200	1	160/240	140	215	IN	8 ... 9	6-lead SOT23	1
IRS10752L	100	1	160/240	140	215	IN	8 ... 9	6-lead SOT23	1

High-voltage start-up IC

Part number	Voltage class [V]	Control inputs	Low off current [μA]	Programmable upper threshold	Overtemperature shutdown	Package	MSL
IRS25751L	480	EN	2.5	✓	✓	5-lead SOT23	1

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