

Control Integrated Circuit

**Fax
on
Demand
Number**

Part Number	V_{Offset} (V)	$I_{\text{O}+/-}$ (mA)	V_{OUT} (V)	$t_{\text{on/off}}$ (ns)	Design Features
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High and Low Side Driver

IR2110	500	2 / 2	10 / 20	120 / 94	Delay Matching (ns) 10	60011
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Cycle-by-cycle edge-triggered shutdown logic
Separate logic & power returns

Package Options

14-Lead DIP	14-lead DIP w/o 4
16-Lead DIP	16-Lead SOIC

IR2112	600	200 / 420	10 / 20	125 / 105	Delay Matching (ns) 30	60026
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Separate logic and low side supplies
Cycle-by-cycle edge-triggered shutdown logic

Package Options

14-Lead DIP	14-Lead DIP w/o 4
16-Lead DIP	16-Lead SOIC

8-Lead SOIC



16-Lead DIP w/o 4



16-Lead SOIC



28-Lead SOIC



8-Lead DIP

16-Lead DIP

16-Lead DIP w/o 4/5

28-Lead DIP

44-Lead PLCC

Illustrations not to scale

input

control

switch

output

distribution

to view a datasheet, click on the part number

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High and Low Side Driver

IR2113

600

2 / 2

10 / 20

120 / 94

Delay Matching (ns) 10

60030

Separate logic and low side supplies

Cycle-by-cycle edge-triggered shutdown logic

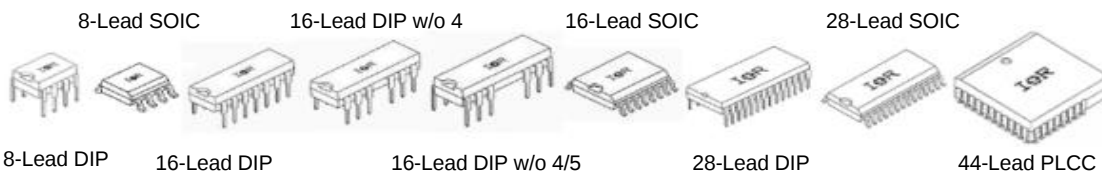
Package Options

14-Lead DIP

14-Lead DIP w/o 4

16-Lead DIP

16-Lead SOIC



Illustrations not to scale

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3 High Side & 3 Low Side Driver

IR2131

600

200 / 420

10 / 20

1.3 / 0.6

Deadtime (ns) 700

60032

*Independent 3 high-side and 3 low-side drivers
Over-current shutdown turns off all 6 drivers*

Package Options

28-Lead DIP

28-Lead SOIC

44-Lead PLCC

8-Lead SOIC

16-Lead DIP w/o 4

16-Lead SOIC

28-Lead SOIC



8-Lead DIP

16-Lead DIP

16-Lead DIP w/o 4/5

28-Lead DIP

44-Lead PLCC

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3-Phase Bridge Driver

IR2130	600	200 / 420	10 / 20	675 / 425	Deadtime (ns) 2.5	60019
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Independent half-bridge drivers
Over-current shutdown turns off all 6 drivers

Package Options

28-Lead DIP 28-Lead SOIC
44-Lead PLCC

IR2132	600	200 / 420	10 / 20	675 / 425	Deadtime (ns) 0.8	60033
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Independent half-bridge drivers
Over-current shutdown turns off all 6 drivers

Package Options

28-Lead DIP 28-Lead SOIC
44-Lead PLCC

8-Lead SOIC

16-Lead DIP w/o 4

16-Lead SOIC

28-Lead SOIC



8-Lead DIP

16-Lead DIP

16-Lead DIP w/o 4/5

28-Lead DIP

44-Lead PLCC

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3-Phase Bridge Driver

IR2133/IR2135	600	200 / 420	10 / 20	700 / 700	60064
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Independent half-bridge drivers
Over-current shutdown turns off all 6 drivers

Package Options 44-Lead PLCC

IR2233/IR2235	1200	200 / 420	10 / 20	700 / 700	60102
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Independent half-bridge drivers
Over-current shutdown turns off all 6 drivers

Package Options 44-Lead PLCC

8-Lead SOIC

16-Lead DIP w/o 4

16-Lead SOIC

28-Lead SOIC



8-Lead DIP

16-Lead DIP

16-Lead DIP w/o 4/5

28-Lead DIP

44-Lead PLCC

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Current Limiting Low Side Driver

IR2121	5	1 / 2	12 / 18	150 / 150	VCSt _h (mV) 230 Undervoltage lockout Current detection & limiting loop	60018
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Package Options

8-Lead DIP

IR2125	500	1 / 2	12 / 18	150 / 150	VCSt _h (mV) 230 Undervoltage lockout Current detection & limiting loop	60017
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Package Options

8-Lead DIP

8-Lead SOIC

16-Lead DIP w/o 4

16-Lead SOIC

28-Lead SOIC



8-Lead DIP

16-Lead DIP

16-Lead DIP w/o 4/5

28-Lead DIP

44-Lead PLCC

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Current Sensing Single Channel Driver

IR2127	600	200 / 420	10 / 20	150 / 100	VCSt _h (mV) 250	60036
Undervoltage lockout Overcurrent shutdown						

Package Options

8-Lead DIP

8-Lead SOIC

IR2128	600	200 / 420	10 / 20	150 / 100	VCSt _h (mV) 250	60042
Undervoltage lockout Overcurrent shutdown						

Package Options

8-Lead DIP

8-Lead SOIC

8-Lead SOIC

16-Lead DIP w/o 4

16-Lead SOIC

28-Lead SOIC



8-Lead DIP

16-Lead DIP

16-Lead DIP w/o 4/5

28-Lead DIP

44-Lead PLCC

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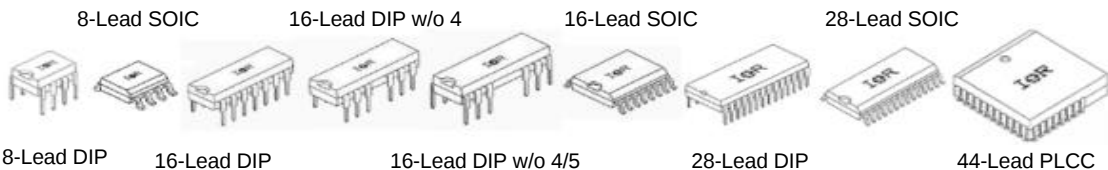
Half-Bridge Driver

IR2111	600	200 / 420	10 / 20	850 / 150	Deadtime (ns) 700 <i>Floating VBS drive channel</i> <i>Internal deadtime control</i>	60028
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Package Options

8-Lead DIP

8-Lead SOIC



Illustrations not to scale



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High and Low Side Driver

IR2101	600	100 / 210	10 / 20	130 / 90	Delay Matching (ns) 30 Floating VBS Drive Channel Undervoltage lockout	60043
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Package Options

8-Lead DIP

8-Lead SOIC

IR2102	600	100 / 210	10 / 20	130 / 90	Delay Matching (ns) 30 Floating VBS Drive Channel Undervoltage lockout	60044
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Package Options

8-Lead DIP

8-Lead SOIC

8-Lead SOIC

16-Lead DIP w/o 4

16-Lead SOIC

28-Lead SOIC



8-Lead DIP

16-Lead DIP

16-Lead DIP w/o 4/5

28-Lead DIP

44-Lead PLCC

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High and Low Side Driver

IR2103	600	100 / 210	10 / 20	600 / 90	Deadtime (ns) 500 Floating VBS Drive Channel Cross-conduction prevention	60045
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Package Options

8-Lead DIP

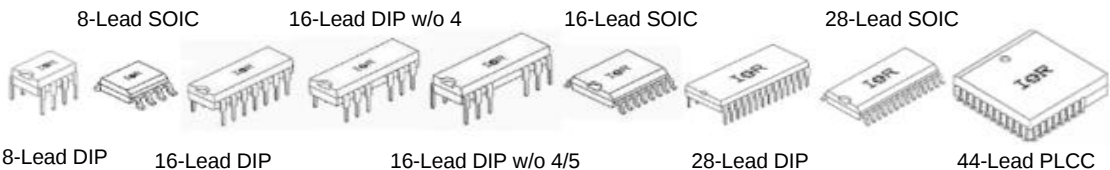
8-Lead SOIC

IR2104	600	100 / 210	10 / 20	600 / 90	Deadtime (ns) 500 Cross-conduction prevention Internal deadtime control	60046
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Package Options

8-Lead DIP

8-Lead SOIC



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Self-Oscillating Half-Bridge Driver

IR2151	600	100 / 210	10 / 20	/	Deadtime (ns) 1.2	60034
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Programmable oscillator frequency
50% duty cycle

Package Options

8-Lead DIP

IR2152	600	100 / 210	10 / 20	/	Deadtime (ns) 1.2	60035
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Programmable oscillator frequency
50% duty cycle

Package Options

8-Lead DIP

8-Lead SOIC

16-Lead DIP w/o 4

16-Lead SOIC

28-Lead SOIC



8-Lead DIP

16-Lead DIP

16-Lead DIP w/o 4/5

28-Lead DIP

44-Lead PLCC

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Self-Oscillating Half-Bridge Driver

IR2153	600	200 / 400	/	/	Deadtime (μ s) 1.2	60062
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$V_{clamp} = 15.6V$
50% duty cycle

Package Options

8-Lead DIP

8-Lead SOIC

IR2155	600	210 / 420	10 / 20	/	Deadtime (ns) 1.2	60029
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Programmable oscillator frequency
Micropower supply startup current of 125 μ A typical

Package Options

8-Lead DIP

8-Lead SOIC

16-Lead DIP w/o 4

16-Lead SOIC

28-Lead SOIC



8-Lead DIP

16-Lead DIP

16-Lead DIP w/o 4/5

28-Lead DIP

44-Lead PLCC

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Single Channel Driver

IR2117	600	200 / 420	10 / 20	125 / 105	60031
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*Floating VBS drive channel
Undervoltage lockout*

Package Options

8-Lead DIP

8-Lead SOIC

IR2118	600	200 / 420	10 / 20	125 / 105	60041
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*Floating VBS drive channel
Undervoltage lockout*

Package Options

8-Lead DIP

8-Lead SOIC

8-Lead SOIC

16-Lead DIP w/o 4

16-Lead SOIC

28-Lead SOIC



8-Lead DIP

16-Lead DIP

16-Lead DIP w/o 4/5

28-Lead DIP

44-Lead PLCC

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