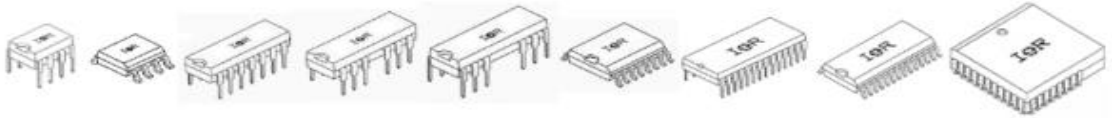
Control Integrated Circuit

www.irf.com

Part Number	V_{Offset} (V)	$I_{O+/-}$ (mA)	V_{OUT} (V)	$t_{on/off}$ (ns)	Design Features	Fax on Demand Number
High and Low Side Driver						
IR2110	500	2 / 2	10 / 20	120 / 94	Delay Matching (ns) 10 *Cycle-by-cycle edge-triggered shutdown logic* *Separate logic & power returns*	60011
					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 *Separate logic and low side supplies* *Cycle-by-cycle edge-triggered shutdown logic*	60026
					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

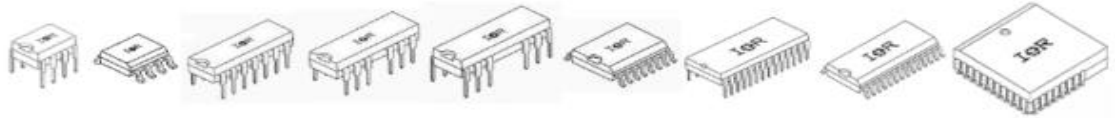
Control Integrated Circuit

www.irf.com

Part Number	V_{Offset} (V)	$I_{O+/-}$ (mA)	V_{OUT} (V)	$t_{on/off}$ (ns)	Design Features	Fax on Demand Number
High and Low Side Driver						
IR2113	600	2 / 2	10 / 20	120 / 94	Delay Matching (ns) 10 *Separate logic and low side supplies* *Cycle-by-cycle edge-triggered shutdown logic*	60030

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

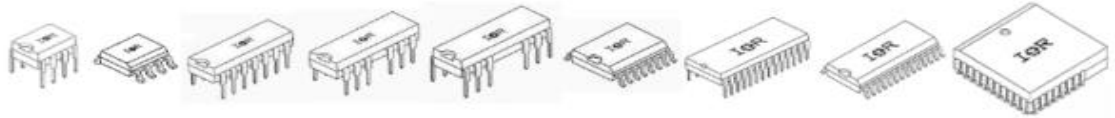
to view a datasheet, click on the part number

Control Integrated Circuit

www.irf.com

Part Number	V_{Offset} (V)	$I_{O+/-}$ (mA)	V_{OUT} (V)	$t_{on/off}$ (ns)	Design Features	Fax on Demand Number
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

Illustrations not to scale

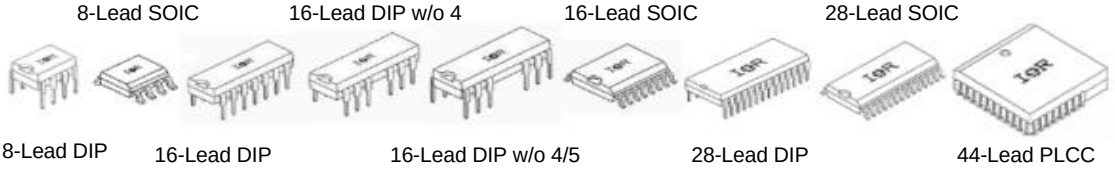
input control switch output distribution

to view a datasheet, click on the part number

Control Integrated Circuit

www.irf.com

Part Number	V_{Offset} (V)	$I_{O+/-}$ (mA)	V_{OUT} (V)	$t_{on/off}$ (ns)	Design Features	Fax on Demand Number
3-Phase Bridge Driver						
IR2130	600	200 / 420	10 / 20	675 / 425	Deadtime (ns) 2.5 *Independent half-bridge drivers* *Over-current shutdown turns off all 6 drivers*	60019
					Package Options 28-Lead DIP 28-Lead SOIC 44-Lead PLCC	
IR2132	600	200 / 420	10 / 20	675 / 425	Deadtime (ns) 0.8 *Independent half-bridge drivers* *Over-current shutdown turns off all 6 drivers*	60033
					Package Options 28-Lead DIP 28-Lead SOIC 44-Lead PLCC	



Illustrations not to scale

input control switch output distribution

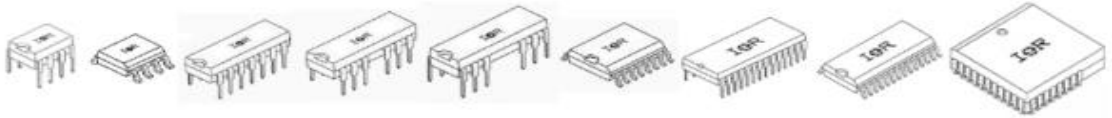
to view a datasheet, click on the part number

Control Integrated Circuit

www.irf.com

Part Number	V_{Offset} (V)	$I_{O+/-}$ (mA)	V_{OUT} (V)	$t_{on/off}$ (ns)	Design Features	Fax on Demand Number
3-Phase Bridge Driver						
IR2133/IR2135	600	200 / 420	10 / 20	700 / 700		60064
					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
					Independent half-bridge drivers *Over-current shutdown turns off all 6 dirvers*	
					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

Illustrations not to scale

input control switch output distribution

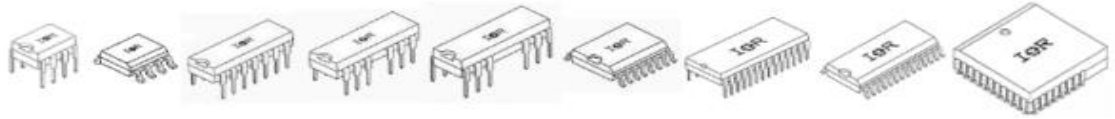
to view a datasheet, click on the part number

Control Integrated Circuit

www.irf.com

Part Number	V_{Offset} (V)	$I_{O+/-}$ (mA)	V_{OUT} (V)	$t_{on/off}$ (ns)	Design Features	Fax on Demand Number
Current Limiting Low Side Driver						
IR2121	5	1 / 2	12 / 18	150 / 150	VCSth (mV) 230 *Undervoltage lockout* *Current detection & limiting loop*	60018
					Package Options 8-Lead DIP	
IR2125	500	1 / 2	12 / 18	150 / 150	VCSth (mV) 230 *Undervoltage lockout* *Current detection & limiting loop*	60017
					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

Illustrations not to scale

input | control | switch | output | distribution

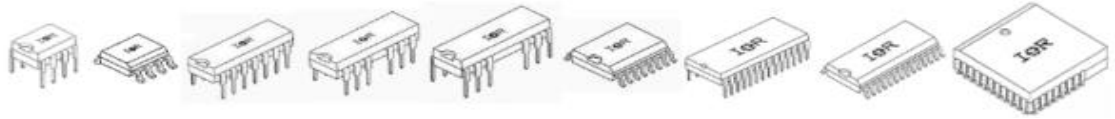
to view a datasheet, click on the part number

Control Integrated Circuit

www.irf.com

Part Number	V_{Offset} (V)	$I_{O+/-}$ (mA)	V_{OUT} (V)	$t_{on/off}$ (ns)	Design Features	Fax on Demand Number
Current Sensing Single Channel Driver						
IR2127	600	200 / 420	10 / 20	150 / 100	VCSth (mV) 250 *Undervoltage lockout* *Overcurrent shutdown*	60036
					Package Options 8-Lead DIP 8-Lead SOIC	
IR2128	600	200 / 420	10 / 20	150 / 100	VCSth (mV) 250 *Undervoltage lockout* *Overcurrent shutdown*	60042
					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

Illustrations not to scale

input control switch output distribution

to view a datasheet, click on the part number

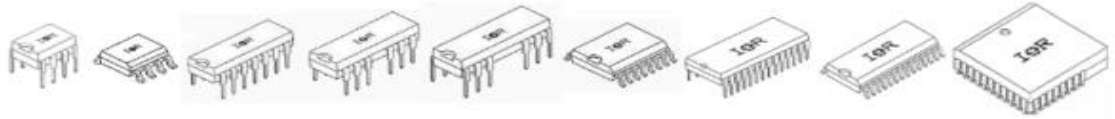
Control Integrated Circuit

www.irf.com

Part Number	V_{Offset} (V)	$I_{O+/-}$ (mA)	V_{OUT} (V)	$t_{on/off}$ (ns)	Design Features	Fax on Demand Number
Half-Bridge Driver						
IR2111	600	200 / 420	10 / 20	850 / 150	Deadtime (ns) 700 *Floating VBS drive channel* *Internal deadtime control*	60028

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

Illustrations not to scale

input | control | switch | output | distribution

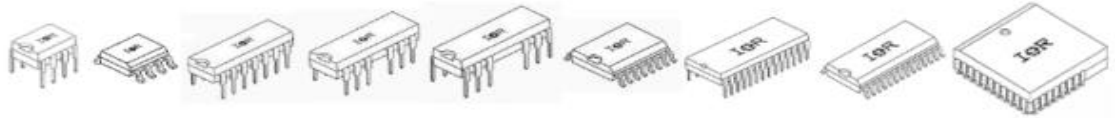
to view a datasheet, click on the part number

Control Integrated Circuit

www.irf.com

Part Number	V_{Offset} (V)	$I_{O+/-}$ (mA)	V_{OUT} (V)	$t_{on/off}$ (ns)	Design Features	Fax on Demand Number
High and Low Side Driver						
IR2101	600	100 / 210	10 / 20	130 / 90	Delay Matching (ns) 30 *Floating VBS Drive Channel* *Undervoltage lockout*	60043
					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
					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

Illustrations not to scale

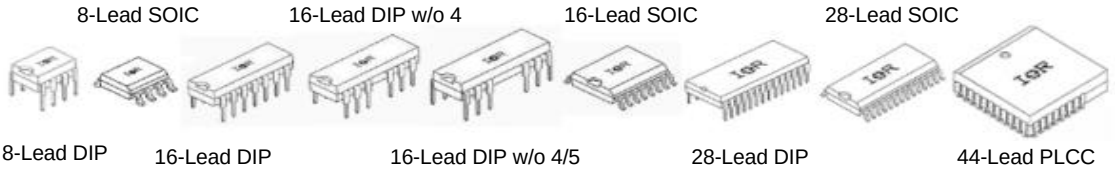
input control switch output distribution

to view a datasheet, click on the part number

Control Integrated Circuit

www.irf.com

Part Number	V_{Offset} (V)	$I_{O+/-}$ (mA)	V_{OUT} (V)	$t_{on/off}$ (ns)	Design Features	Fax on Demand Number
High and Low Side Driver						
IR2103	600	100 / 210	10 / 20	600 / 90	Deadtime (ns) 500 *Floating VBS Drive Channel* *Cross-conduction prevention*	60045
					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
					Package Options 8-Lead DIP 8-Lead SOIC	



Illustrations not to scale

input control switch output distribution

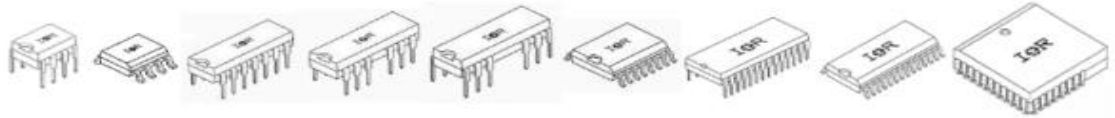
to view a datasheet, click on the part number

Control Integrated Circuit

www.irf.com

Part Number	V_{Offset} (V)	$I_{O+/-}$ (mA)	V_{OUT} (V)	$t_{on/off}$ (ns)	Design Features	Fax on Demand Number
Self-Oscillating Half-Bridge Driver						
IR2151	600	100 / 210	10 / 20	/	Deadtime (ns) 1.2 *Programmable oscillator frequency* *50% duty cycle*	60034
					Package Options 8-Lead DIP	
IR2152	600	100 / 210	10 / 20	/	Deadtime (ns) 1.2 *Programmable oscillator frequency* *50% duty cycle*	60035
					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

Illustrations not to scale

input | control | switch | output | distribution

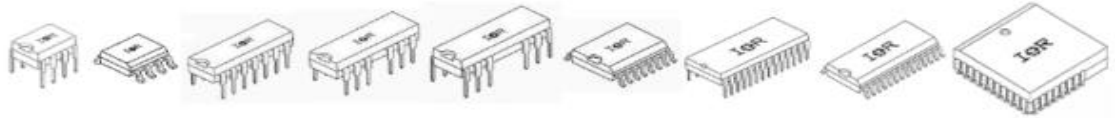
to view a datasheet, click on the part number

Control Integrated Circuit

www.irf.com

Part Number	V_{Offset} (V)	$I_{O+/-}$ (mA)	V_{OUT} (V)	$t_{on/off}$ (ns)	Design Features	Fax on Demand Number
Self-Oscillating Half-Bridge Driver						
IR2153	600	200 / 400	/	/	Deadtime (µs) 1.2 *Vclamp = 15.6V* *50% duty cycle*	60062
					Package Options 8-Lead DIP 8-Lead SOIC	
IR2155	600	210 / 420	10 / 20	/	Deadtime (ns) 1.2 *Programmable oscillator frequency* *Micropower supply startup current of 125µA typical*	60029
					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

Illustrations not to scale

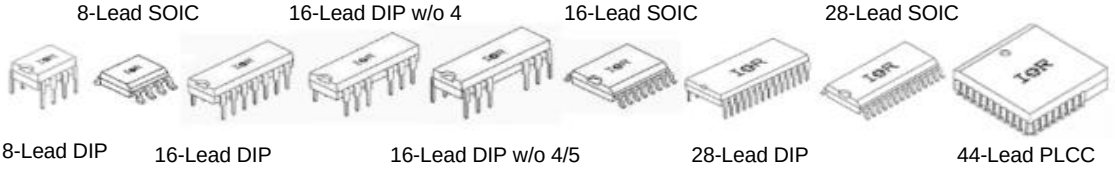
input control switch output distribution

to view a datasheet, click on the part number

Control Integrated Circuit

www.irf.com

Part Number	V_{Offset} (V)	$I_{O+/-}$ (mA)	V_{OUT} (V)	$t_{on/off}$ (ns)	Design Features	Fax on Demand Number
Single Channel Driver						
IR2117	600	200 / 420	10 / 20	125 / 105	*Floating VBS drive channel* *Undervoltage lockout*	60031
					Package Options 8-Lead DIP 8-Lead SOIC	
IR2118	600	200 / 420	10 / 20	125 / 105	*Floating VBS drive channel* *Undervoltage lockout*	60041
					Package Options 8-Lead DIP 8-Lead SOIc	



Illustrations not to scale

input control switch output distribution

to view a datasheet, click on the part number