

# Gate Drivers

## High Speed, High Current Low Side Gate Drivers

IXYS's line of ultra-fast, high current MOSFET and IGBT gate drivers are optimized for high efficiency performance in motor drive and power conversion applications. With output current ratings of 2 A to 30 A, they are designed to switch the largest MOSFETs and IGBTs with minimum switching times and at frequencies up to 10 MHz. Depending on the output current rating, these gate drivers are offered in DFN, SOIC, Power SOIC, DIP, TO-220 and TO-263 packages.


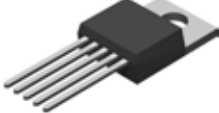



### Features

- 2 A to 30 A Peak Source/Sink Drive Current
- Wide Operating Voltage Range: 4.5 V to 35 V
- -40°C to +125°C Extended Operating Temperature Range
- Logic Input Withstands Negative Swing of up to 5 V
- Matched Rise and Fall Times
- Low Propagation Delay Time
- Low 10  $\mu$ A Supply Current
- Low Output Impedance

### Applications

- Efficient Power MOSFET and IGBT Switching
- Switch Mode Power Supplies
- Motor Controls
- DC to DC Converters
- Class-D Switching Amplifiers
- Pulse Transformer Driver

## Low Side MOSFET / IGBT Gate Driver Selection Guide

Part Number	Output Type	$I_{PK}$ $T_C = 25^\circ\text{C}$ A	Output Resistance $\Omega$	Enable Function	non-inverting	inverting	UVLO V	Package	Fig. No.	Outline drawings on pages O-29...O-51
➤ <b>New</b>										
➤ IXDF 602D2	Dual	2	4		1x	1x	-	8-Pin DFN	X532	 <p><b>X502 8-pin DIP</b></p>  <p><b>X006 TO-220</b></p>  <p><b>X512a 8-pin SOIC</b></p>  <p><b>X512b 8-pin PowerSOIC with exposed metal back</b></p>  <p><b>X532 8-pin DFN</b></p>
➤ IXDF 602PI					1x	1x		8-Pin DIP	X502	
➤ IXDF 602SI					1x	1x		8-Pin Power SOIC	X512b	
➤ IXDF 602SIA					1x	1x		8-Pin SOIC	X512a	
➤ IXDI 602D2						2x		8-Pin DFN	X532	
➤ IXDI 602PI						2x		8-Pin DIP	X502	
➤ IXDI 602SI						2x		8-Pin Power SOIC	X512b	
➤ IXDI 602SIA						2x		8-Pin SOIC	X512a	
➤ IXDN 602D2					2x			8-Pin DFN	X532	
➤ IXDN 602PI					2x			8-Pin DIP	X502	
➤ IXDN 602SI					2x			8-Pin Power SOIC	X512b	
➤ IXDN 602SIA					2x			8-Pin SOIC	X512a	
➤ IXDD 604D2	Dual	4	2.5	●	2x		-	8-Pin DFN	X532	
➤ IXDD 604PI				●	2x			8-Pin DIP	X502	
➤ IXDD 604SI				●	2x			8-Pin Power SOIC	X512b	
➤ IXDD 604SIA				●	2x			8-Pin SOIC	X512a	
➤ IXDF 604PI					1x	1x		8-Pin DIP	X502	
➤ IXDF 604SI					1x	1x		8-Pin Power SOIC	X512b	
➤ IXDF 604SIA					1x	1x		8-Pin SOIC	X512a	
➤ IXDI 604PI						2x		8-Pin DIP	X502	
➤ IXDI 604SI						2x		8-Pin Power SOIC	X512b	
➤ IXDI 604SIA						2x		8-Pin SOIC	X512a	
➤ IXDN 604PI					2x			8-Pin DIP	X502	
➤ IXDN 604SI					2x			8-Pin Power SOIC	X512b	
➤ IXDN 604SIA					2x			8-Pin SOIC	X512a	
➤ IXDD 609D2	Single	9	1	●	●		-	8-Pin DFN	X532	
➤ IXDD 609SI				●	●			8-Pin Power SOIC	X512b	
➤ IXDD 609SIA				●	●			8-Pin SOIC	X512a	
➤ IXDD 609PI				●	●			8-Pin DIP	X502	
➤ IXDD 609CI				●	●			5-Pin TO-220	X006	
➤ IXDD 609YI				●	●			5-Pin TO-263	X012a	
➤ IXDI 609SI						●		8-Pin Power SOIC	X512b	
➤ IXDI 609SIA						●		8-Pin SOIC	X512a	
➤ IXDI 609PI						●		8-Pin DIP	X502	
➤ IXDI 609CI						●		5-Pin TO-220	X006	
➤ IXDI 609YI						●		5-Pin TO-263	X012a	
➤ IXDN 609SI					●			8-Pin Power SOIC	X512b	
➤ IXDN 609SIA					●			8-Pin SOIC	X512a	
➤ IXDN 609PI					●			8-Pin DIP	X502	
➤ IXDN 609CI					●			5-Pin TO-220	X006	
➤ IXDN 609YI					●			5-Pin TO-263	X012a	