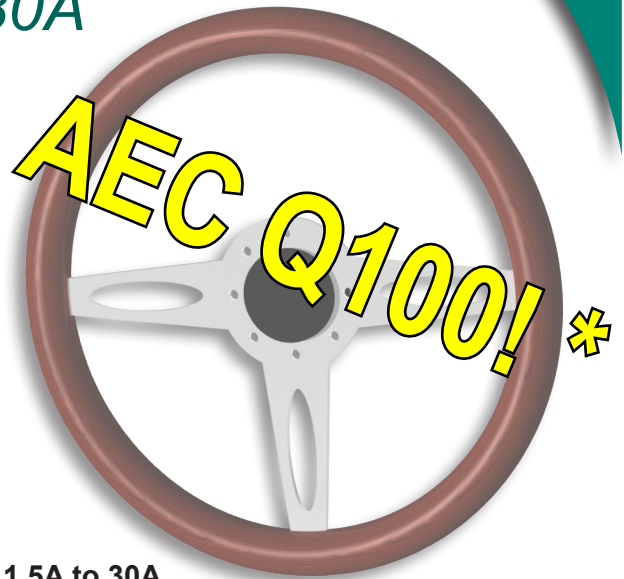


# Low Side Gate Drivers

## Low Side, Ultrafast, 1.5A to 30A IGBT and MOSFET Drivers

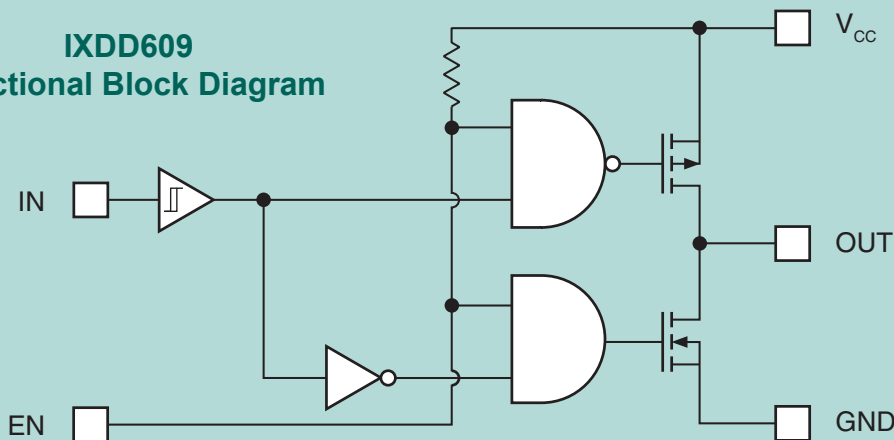
IXYS Integrated Circuits Division offers a powerful family of Low Side Gate Drivers for MOSFETs and IGBTs, with a large mix of logic configurations, packaging, and drive current capabilities. Our single-output and dual-output low side driver ICs include selectable options for logic combinations. The range of current ratings offered is the broadest available, extending to 30A peak, which is the **LARGEST PEAK DRIVE CURRENT** capability for an integrated driver on the market.

In all these driver devices, internal circuitry eliminates cross conduction and current “shoot-through,” and the driver is virtually immune to latch up.



- **Device Types with Peak Source/Sink Driver Current from 1.5A to 30A**
- **Wide Operating Voltage Range: 4.5V to 35V**
- **Extended Operating Temperature Range from -40°C to +125°C**
- **Logic Inputs Withstand Negative Swing of up to 5V**
- **Low Propagation Delay Time**
- **Low, 10µA, Supply Current**
- **Low Output Impedance**

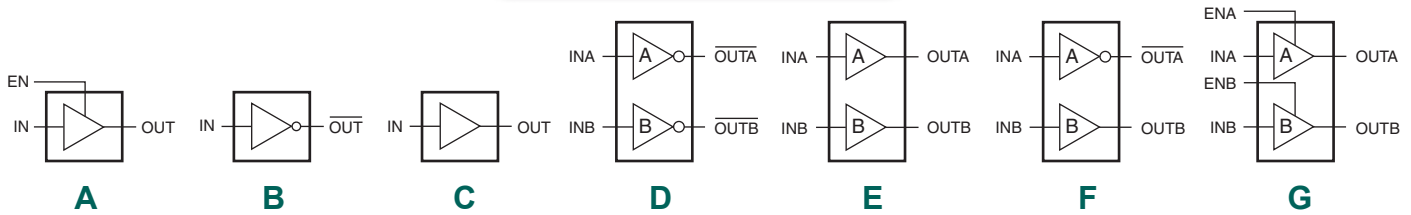
**IXDD609  
Functional Block Diagram**



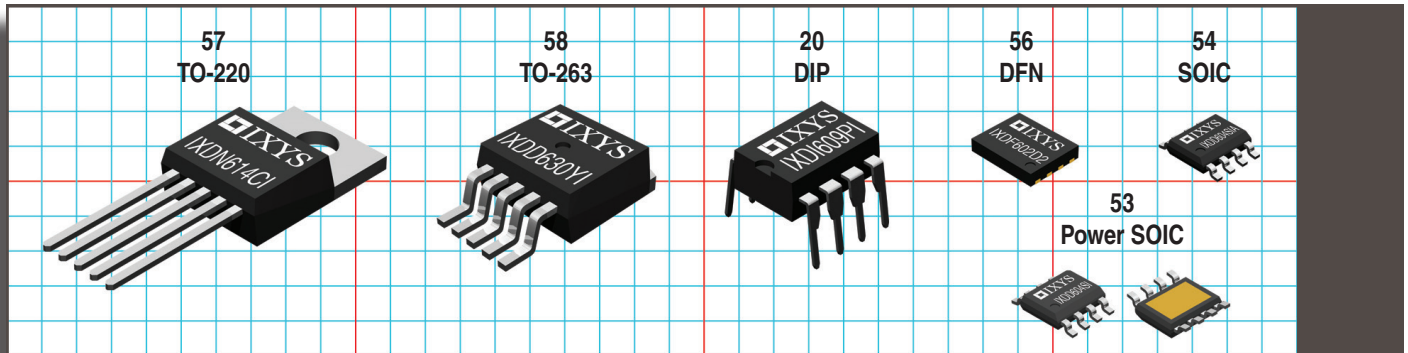
\* IXD\_604SI (Power SOIC), IXD604SIA (SOIC), and IXD\_609SI (Power SOIC) are all automotive qualified per AEC Q100. For more information and data sheets, please visit:

<http://www.ixysic.com/Products/Automotive.htm>

## Logic Configurations



## Package Options



## Low Side Gate Driver Devices

Device	Output Type	$I_{\text{PEAK}}$ (A)	Output Resistance ( $\Omega$ )	Logic Configuration	Enable Function	Package Options
IX4426	Dual	1.5	8	D	-	54
IX4427	Dual	1.5	8	E	-	54
IX4428	Dual	1.5	8	F	-	54
IXD_602	Dual	2	4	D, E, F	-	20, 53, 54, 56
IX4423	Dual	3	4	D	-	54
IX4424	Dual	3	4	E	-	54
IX4425	Dual	3	4	F	-	54
IXD_604	Dual	4	2.5	D, E, F, G	(G)	20, 53, 54, 56
IXD-609	Single	9	1	A, B, C	(A)	20, 53, 54, 56, 57, 58
IXD_614	Single	14	0.8	A, B, C	(A)	20, 53, 57, 58
IXD_630	Single	30	0.4	A, B, C	(A)	57, 58
IXD_630M	Single	30	0.4	A, B, C	(A)	57, 58

The rich mix of features, package options, and capabilities offered by IXYS Integrated Circuits Division makes it the premier supplier of low-side gate driver ICs, with solutions available for both traditional and unconventional gate-drive requirements. For more information and data sheets, please visit:

<http://www.ixysic.com/Products/IGBT-MOSFETDvr.htm>

For additional information, contact your IXYS IC Division Representative:

<http://www.ixysic.com/home/pages.nsf/locate.rep>

Or visit IXYS IC Division's web site:

<http://www.ixysic.com>

