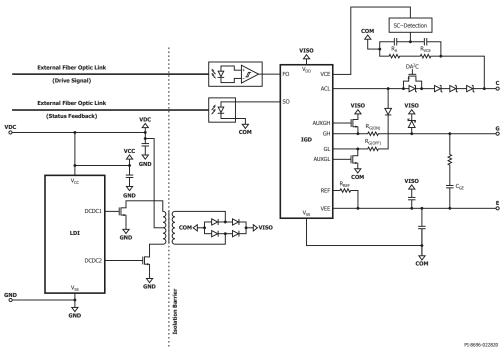






Application Circuit Diagram (1SP0351V2xx)



Applications

- High-voltage DC transmission systems
- Railway main inverters

- STATCOM
- Medium-voltage drives

Certifications

• Creepage and clearance according to IEC 60077-1

Product Details

Parameter	Min	Typical	Max	Unit
Nominal supply voltage	0	15	16	V
Supply current @ f _{IN} = 0 Hz		TBD		mA
Supply current, full load		nn		mA
Output power		3		w
Gate voltage		+15 / -10		V
Peak output current (gate current)	-50		+50	А
Switching frequency (f _S ¹)			2	kHz
Test voltage	10200			V _{RMS}
Creepage distance on PCB primary-secondary	45			mm
Clearance distance primary-secondary	25			mm
Test voltage	10200			V _{ISO,PS}
Partial discharge extinction voltage (3.3 kV versions)	5400			V _{PEAK}
Operating temperature	-40		+85	°C



1SP0351 single-channel plug-and-play gate driver

Design Support

Available Products 1SP0351 products list (www.power.com/1SP0351)

Application Note AN-1301: Do's and don'ts with SCALE-2 gate drivers (www.power.com/an-1301)



¹ Maximum switching frequency depends on the IGBT gate charge. See data sheet for actual value of specific driver.