

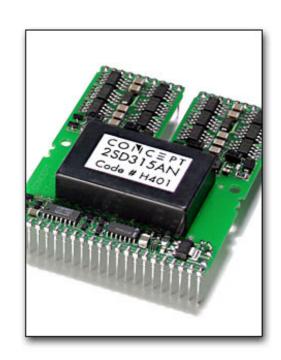
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2SD315A

The 2SD315A is a compact, high-power dual **SCALE** driver for IGBTs with blocking voltages up to 1600V/1700V. The two drive channels feature an **electrical isolation** between the control electronics and the power section.

Each channel is equipped with a programmable Vce monitoring function for protection against short circuit and over-current. The driver supplies a gate current of +/-15A. The gate voltage is +/-15V. The integrated DC/DC converter supplies a drive power of 3 W per channel.

The interface is compatible to all logic families (5...15V). The driver can be operated in two **modes**: either with two independent driver channels or as a half-bridge driver with internal dead-time generation.





Key Data in Overview

Parameter	min	typ	max	unit
Nominal supply voltage VDC, VDD		15		Vdc
Supply current without load <i>IDC</i> + <i>IDD</i>		42		mA
Supply current with maximal load Last IDC + IDD			490	mA
Output power DC/DC converter (both channels)			6	W
Efficiency DC/DC converter		85		%
Delay time input to output (turn on)		300		ns
Delay time input to output (turn off)		350		ns
Peak output current (gate current) IG	-15		+15	А
Output rise time		100		ns
Output fall time		80		ns
Isolation test voltage (Vac/50Hz/1min)			4000	Vac
Partial discharge extinction voltage acc. IEC270		>1700		Vpeak
Creep paht input to output		20		mm
Guaranteed dv/dt immunity (input to output) dV/dt	100			kV/µs
Operating temperature 2SD315AI	-40		+85	°C
Operating temperature 2SD315AN	0		+70	°C