

# 600 V, 650 V, and 1200 V, 44 A to 250 A IGBT in SOT-227



The DNA of tech.™

## New-Generation IGBT Modules Offer Higher Thermal Efficiency

Configured as single switches (with or without an antiparallel diode) and choppers, these modules are the ideal choice for high frequency power applications. Offered in the standard SOT-227 package, the devices feature 600 V, 650 V, and 1200 V voltage ratings and current handling up to 250 A.

### Applications

- Industrial welding
- UPS
- Solar inverters
- Switch mode power supplies (SMPS)
- Power factor correction (PFC)
- Induction heating
- Industrial motor control

### Benefits

- Easy to use and parallel
- Low profile package
- Low thermal resistance allows for operation at higher case temperatures while maintaining the operating junction temperature within safe limits
- Very low internal inductance
- Due to its flexibility, this package allows several user-level configurations and is suitable for many different applications
- The complete and broad product portfolio of the SOT-227 allows for the design of a full electronic inverter for industrial applications



### Features

- Wide range of current ratings: 44 A to 250 A
- Voltage up to 1200 V
- High isolation voltage
- New generation features lower thermal resistance and higher current rating
- Electrically isolated baseplate
- Optimized anti-parallel ultrafast diode with soft recovery characteristics
- Contact Vishay for customization of circuit topology, IGBT speed

Part Number	Circuit Configuration	$V_{CES}$	$I_c$ at $T_c$		Note
		(V)	(A)	(°C)	
<a href="#">VS-GT75LA60UF</a>	Chopper low side	600	61	80	New
<a href="#">VS-GT75NA60UF</a>	Chopper high side	600	61	80	New
<a href="#">VS-GT80DA60U</a>	Single switch with diode	600	85	90	
<a href="#">VS-GT90DA60U</a>	Single switch with diode	600	92	90	New
<a href="#">VS-GT250SA60S</a>	Single switch no diode	600	250	90	New
<a href="#">VS-GT50LA65UF</a>	Chopper low side	650	44	80	New
<a href="#">VS-GT100LA65UF</a>	Chopper low side	650	70	80	New
<a href="#">VS-GT55LA120UX</a>	Chopper low side	1200	47	80	New
<a href="#">VS-GT55NA120UX</a>	Chopper high side	1200	47	80	New
<a href="#">VS-GT80DA120U</a>	Single switch with diode	1200	93	90	
<a href="#">VS-GT90DA120U</a>	Single switch with diode	1200	106	90	New
<a href="#">VS-GT90SA120U</a>	Single switch no diode	1200	106	90	New
<a href="#">VS-GT100DA120UF</a>	Single switch with diode	1200	123	90	
<a href="#">VS-GT180DA120U</a>	Single switch with diode	1200	185	90	

Samples available for all products