

SLLIMM™ -nano SMD

IGBT- and MOSFET-based Surface-mounted IPMs



Surface-mounted intelligent power modules save space and improve energy efficiency in low-power motor drives in hard-switching circuits

The new space-saving surface mounted technology is now available for the SLLIMM™-nano SMD series of intelligent power modules (IPM). On IGBT (600 V) or MOSFET (500 V) technologies, the new SLLIMM™-nano SMD enhance the efficiency of a wide range of home appliances. Designed for low-power motor drives working up to 20 kHz in hard-switching circuitries and for application power range up to 100 W, these devices are ideal for small fans, roller shutters, refrigerator compressors, dishwashers, draining and recirculation pumps.



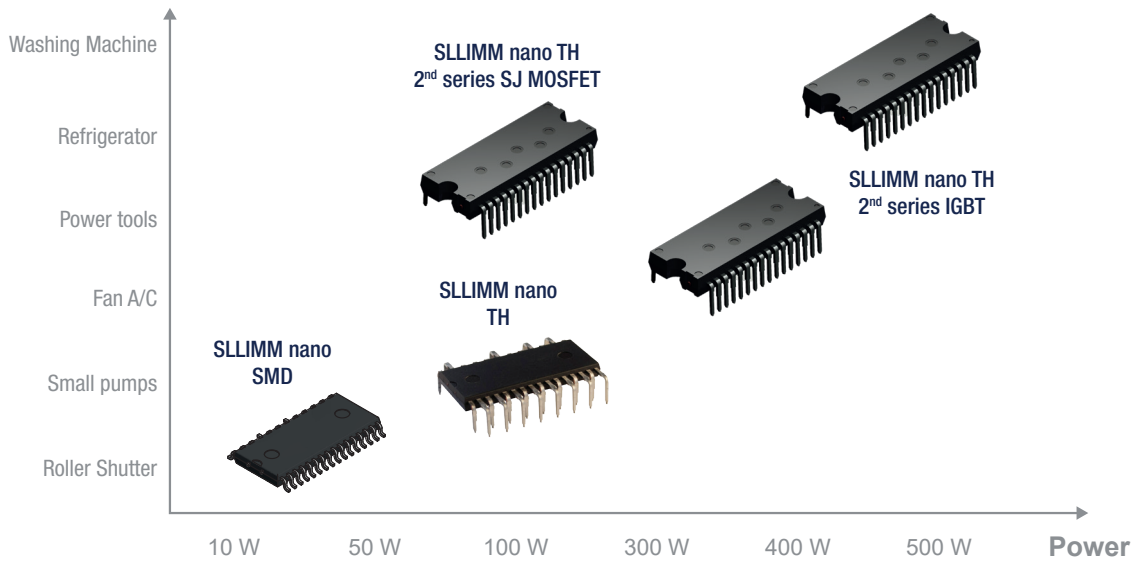
KEY FEATURES

- Surface mounting technology package
- IGBT and MOSFET based
- 1 to 3 A current rating at 25 °C
- 600 V and 500 V breakdown voltages
- Optimized voltage drop in conduction

KEY BENEFITS

- Easy to drive through a low-voltage microcontroller
- Greater robustness and reliability
- Plug'n Play solution
- PCB space reduction

Offering improved creepage (2.7 mm) and clearance (2.0 mm) for higher safety isolation, the compact dual-inline SMD footprint is ideal for application boards where reflow and/or wave soldering processes are mandatory. This series completes ST's portfolio of intelligent power modules in nano through-hole (TH) lead option package.



Power switch	PN	Voltage (V)	Ic (A)	Max R _{DS(ON)} (Ω)	V _{CE(sat)} typ (V)	t _{dead min} (μs)
IGBT	STGIPNS3H60T-H	600	3	-	2.15	1.5
	STGIPNS3HD60-H	600	3	-	2.15	1
MOSFET	STIPNS2M50(T)-H	500	2	1.7	-	1
	STIPNS1M50T-H	500	1	3.6	-	1
	STIPNS1M50SDT-H	500	1	3.6	-	1

