

PRODUCT NEWS

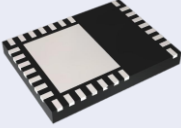
2025.05

Navitas

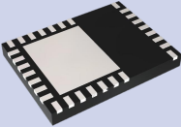
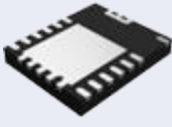
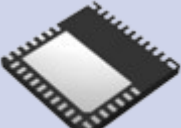


NV611x/NV612x/C

GaNFast Singles

GaNFast Family	Part#	Package QFN (mm)	R _{DS(ON)} (typ, mΩ)	Samples	MP	Typical Applications	Features	System Benefits
Single GaNFast 5 x 6	NV6113	 5 x 6	300	Now	Now		Int. Gate Drive Reg. Gate Drive Protected Gate VDStran = 800V ESD = 2kV	Small PCB footprint Int. gate drive No gate ringing No gate glitching Robust 800VDSmax
	NV6115		170	Now	Now			
	NV6117		120	Now	Now			
Single GaNFast 6 x 8	NV6123	 6 x 8	300	Now	Now	HFQR, ACF, PFC, LLC, LCC, AHB, Inverter, Motor	Int. Gate Drive Reg. Gate Drive Protected Gate VDStran = 800V ESD = 1kV Large Cooling PAD SK pin (NV6128)	Small PCB footprint Int. gate drive No gate ringing No gate glitching Lower thermals Robust 800VDSmax
	NV6125		170	Now	Now			
	NV6125C		170	Now	Now			
	NV6127		120	Now	Now			
	NV6127C		120	Now	Now			
	NV6128		70	Now	Now			
	NV6128C		70	Now	Now			

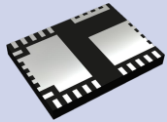
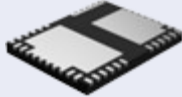
GaNSense Singles

GaNFast Family	Part#	Package QFN (mm)	R _{DS(ON)} (typ, mΩ)	Samples	MP	Typical Applications
Single GaNSense QFN 6x8	NV6132C	 6 x 8	450	Now	Now	HFQR, AHB, PFC, LLC, LCC, Inverter, Motor
	NV6133C		330	Now	Now	
	NV6134C		260	Now	Now	
	NV6135C		210	Now	Now	
	NV6136C		170	Now	Now	
	NV6138A		120	Now	Now	
	NV6138C		120	Q4'23	Q1'24	
Single GaNSense QFN 5x6	NV6152	 5 x 6	450	Now	Now	HFQR, AHB, PFC, LLC, LCC, Inverter, Motor
	NV6153		330	Now	Now	
	NV6154		260	Now	Now	
	NV6156		170	Now	Now	
	NV6158		120	Now	Now	
Single GaNSense QFN 8x8	NV6169	 8 x 8	45	Now	Now	PFC, TTP, LLC, Inverter, Motor

GaNslim Value Props

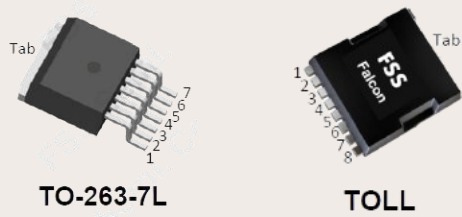
Items	GaNsense NV613X C	GaNslim Gen4 NV614x	GaNSlim Control NV93xx	Note
Package	QFN6*8	DPAK-4L 10*6.5	DPAK-4L 10*6.5 co-pak 	Better thermal performance Visible pins for easy for visual inspection at PCBA production line Optimized product cost
Rds_on	600mR~70mR	600mR~70mR	600mR~70mR	20-300W
Current sensing	Yes , 0.5% Eff benefit	Yes , 0.5% Eff benefit	Yes , 0.5% Eff benefit	Loss-less current sensing Higher Eff No Rcs hot spot
Device temperature	Good	Perfect	Perfect	8-10C Lower temperature at GaN
Turn on/off control	Built-in (RC is required)	Built-in RC is not required	Built-in RC is not required	Easy EMI Lower Vds stress on GaN and SR FET
Iqcc	275uA	5uA	5uA	Compatible with SOT23-6 pin QR controller
Controller compatibility	HV start is required	Yes	Controller is integrated	Compatible with all QR controller in the market

GaNSense Half-Bridge IC Product Family

GaNFast Family	Part#	Package QFN (mm)	RDS(ON) (typ, mΩ)	Samples	MP	Typical Applications
GaNSense Half-Bridge	NV6245C	 6 x 8	275 + 275	Now	Now	TTP, AHB LLC, LCC, Inverter, Motor
	NV6245M		275 + 275	Q1'24	Now	Motor
	NV6247C		150 + 150	Now	Now	TTP, AHB LLC, LCC, Inverter, Motor
	NV6247M		150 + 150	Now	Now	Motor
	NV6267C	 8 x 10	150 + 150	Now	Now	TTP, AHB LLC, LCC, Inverter, Motor
	NV6267M		150 + 150	Now	Now	Motor
	NV6269C		70 + 70	Now	Now	TTP, AHB LLC, LCC, Inverter, Motor
	NV6269M		70 + 70	Now	Now	Motor

Product	Series	Range	Features	Applications
 SMD SAFETY CERAMIC CAPACITORS	WYS series (X1Y1)	Capacitance: 10pF~3300pF,J, K&M Rated voltage: X1:500VAC Y1: 250/300/400/500VAC Operating temperature: -40°C~+125°C	• Miniaturized, surface mounted • Single layer ceramic disc dielectric • Humidity robustness grade: IIIB • Good insulation, high dielectric strength • Comply with IEC 60384-14 • With UL, VDE, ENEC, CQC and KC safety certification	• Primary and secondary coupling (SMPS) • EMI / RFI suppression and filtering • Line-to-line and (or) line-to-ground filtering
 HIGH VOLTAGE CERAMIC CAPACITORS	WC1 series	Capacitance: 10pF~ 1000pF, J, K Rated voltage: 1 kV~20kV TC: NPO, N750,SL, DL Operating temperature: -55°C~ + 125°C	• Linear temperature coefficient of capacitance • High stability of capacitance • Low loss at high frequency	• Temperature compensation • Resonant • Filtering • Voltage multiplier
	WC1-THB series	Capacitance: 10pF~ 1000pF, J, K Rated voltage: 1 kV~6.3kV TC: NPO, N750, SL, DL Operating temperature: -55°C~+125°C	• Humidity robustness grade: IIIB • Linear temperature coefficient of capacitance • High stability of capacitance • Low loss at high frequency	• Temperature compensation • Resonant • Filtering
	WC2 series	Capacitance: 100pF~0.022uF, K, M & Z Rated voltage: 1 kV~20kV TC: Y5P、Y5U、Y5V Operating temperature: -40°C~ + 125°C	• Nonlinear temperature coefficient of capacitance • Large capacitance in small sizes • Good insulation, high dielectric strength	• By-pass • Coupling • Filtering • Voltage multiplier
	WC2-THB series	Capacitance: 100pF~0.022uF, K, M & Z Rated voltage: 1kV~6.3kV TC: Y5P、Y5U、Y5V Operating temperature: -40°C~+125°C	• Humidity robustness grade: IIIB • Nonlinear temperature coefficient of capacitance • Large capacitance in small sizes • Good insulation, high dielectric strength	• By-pass • Coupling • Filtering
 SAFETY CERAMIC CAPACITORS	WYD series (X1Y1)	Capacitance: 10pF~4700pF, K&M Rated voltage: X1: 500VAC Y1: 250/300/400/500VAC Operating temperature: -40°C~+125°C	• Reinforced insulation • Dielectric strength: AC4000V • Impulse peak voltage: 8kV • Failure rate less than 0.12FIT • Humidity robustness grade: IIIB • Comply with IEC 60384-14 • With UL, VDE, ENEC, CQC and KC safety certification	• Primary and secondary coupling (SMPS) • EMI / RFI suppression and filtering • Line-to-line and (or) line-to-ground filtering • D-A isolation and noise absorption for DAA modems without transformers
	WYE series (X1Y2)	Capacitance: 100pF~0.01uF, K&M Rated voltage: X1:400VAC Y2:125/250/300VAC Operating temperature: -40°C~ + 125°C	• Basic insulation • Dielectric strength: AC2600V • Impulse peak voltage: 5kV • The failure rate is less than 0.12FIT • Humidity robustness grade: IIIB • Comply with IEC 60384-14 • With UL, VDE, ENEC, CQC and KC safety certification	• Primary and secondary coupling (SMPS) • EMI / RFI suppression and filtering • Line-to-line and (or) line-to-ground filtering • D-A isolation and noise absorption for DAA modems without transformers

FSS新規格



Product	Rdson	Package	備註
SIC MOS 500V	16mohm	TO-263-7 toll	適用於:relay mos等等 優勢:效果優於SJ MOS, 價格優惠

Product	Rdson	Package	備註
SIC MOS 750V	130mohm	TO-252 TO-220 DFN8*8	適用於：LLC, 200W-400W 半橋....等等 優勢: 效果優於SJ MOS, 價格優惠

以下FSS商品僅供參考

SiC MOSFET

* 12~15V drive

DDAK	PQFN5x6	TO-263-7L	TOLL	DFN8x8
650V 320mΩ 650V* 150~500mΩ	650V 320mΩ 650V* 320mΩ	650V 20~100mΩ 1200V 40~80mΩ 1700V 900mΩ	650V 10~100mΩ 750V 25~75mΩ 650V* 100mΩ	650V 100mΩ 650V* 100~320mΩ

TO-220FP	TO-220-3L	TO-247-3L	TO-247-4L
650V 100mΩ 650V* 100~500mΩ	650V 60~100mΩ 650V* 100~320mΩ	650V 10~100mΩ 750V 35~75mΩ 1200V 20~80mΩ 1700V 900mΩ	650V 10~100mΩ 750V 15~75mΩ 1200V 14~80mΩ

SiC Schottky Diode

PQFN3x3	PQFN5x6	SOD-123	SMAF	DDAK R2L
Low Qc Low Vf 650V/2A	650V/4~8A	650V/4A	650V/4A 650V/4A	650V/4~8A 650V/4A

TO-220 R2L	TO-247-2L	TO-247-3L	TO-220FP R2L
Low Qc Low Vf Low Qc 650V/4~16A 650V/4~10A 1200V/20A	650V/20~30A 650V/20A 1200V/20A	650V/20A 650V/20A	650V/4~10A 650V/4~10A

以下產品歡迎詢問研騰國際

· 200V MOSFET/ 150V MOSFET



TO-220



TO-252

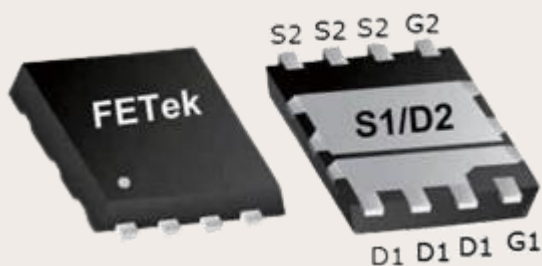


D2PAK

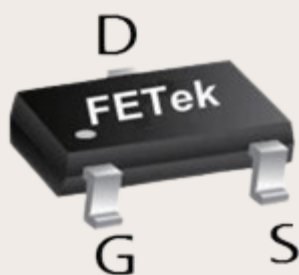


DFN 5X6

· 中低壓



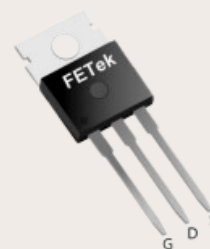
FKBA4400



FKN4002



FKQ2901



FKP6016

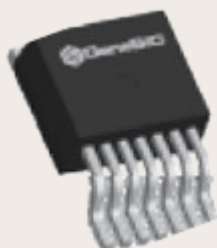
· 1200V SiC Schottky MPS™ / 650V SiC Schottky MPS™



DO-214



TO-252-2



TO-263-7



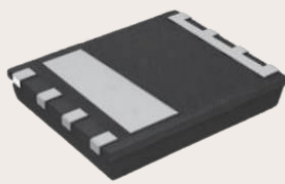
SOT-227



Bare Chip

以下產品歡迎詢問研騰國際

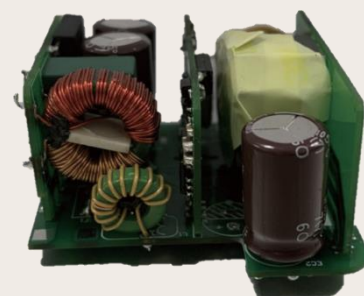
· GaN + Driver Navitas



QFN 5 x 6 mm



QFN 6 x 8 mm



65W GaN Mos Demos Board

· GaNFast + GaNSafe

The GaNFast and GaNSafe logos, both featuring a stylized 'N' icon and the respective product names in blue and black text.

