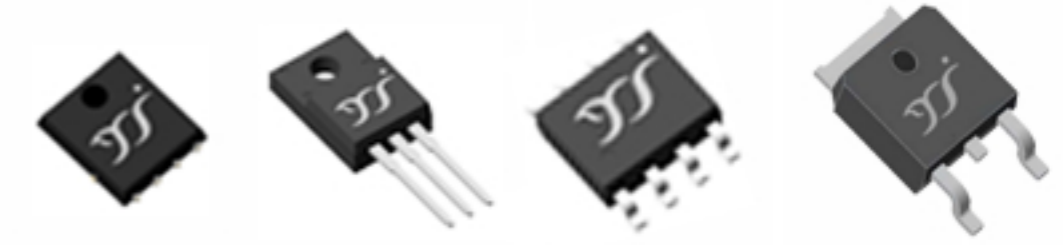


### New N150V SGT MOSFETs for Power over Ethernet (PoE/PoE+)

#### Product Introduction

Power over Ethernet Protocol (PoE) has been available for many years. A new standard IEEE 802.3bt was approved in 2018, which increases the maximum power that can be transmitted through twisted-pair Ethernet cables and encourages new PoE applications to pursue higher power density. Current power supply equipment (PSE) provides up to 100W of power and supports 8 different power levels; Power Device (PD) will be able to use up to 71W of power. Yangjie launched N150V serialized products for IEEE802.3af&at&bt. Using SGT technology, it has higher switching speeds and lower losses than traditional Trench MOS products.



#### Product Features

1. Using SGT technology, the product has low internal resistance and excellent switching characteristics;
2. PDFN5060, SO-8, TO252, ITO220AB multiple packages are optional;
3. Applicable to IEEE802.3af&at&bt protocol PD power supply.

#### Electrical Parameters

P/N	N/P	Vds (V)	ID (A)	Vth (V) typ.	Rds10V (mohm) typ.	Rds10V (mohm) max.	Qg10V (nC) typ.	Tj (°C)	Package
YJS05G15A	N	150	5	3	50	70	16	-55-150	SO-8
YJG15G15A			15	3	52	70	13		PDFN5060
YJD18G15A			18	3	48	70	18		TO-252
YJF15G15A			15	3	50	70	18		ITO-220AB
YJG60G15HJ			60	3	13	19	25		PDFN5060

For more products, please refer to the official website

#### Application



Security



Access Point ( AP )



Base Station