

MOSFET for PD VBUS and Fan Control

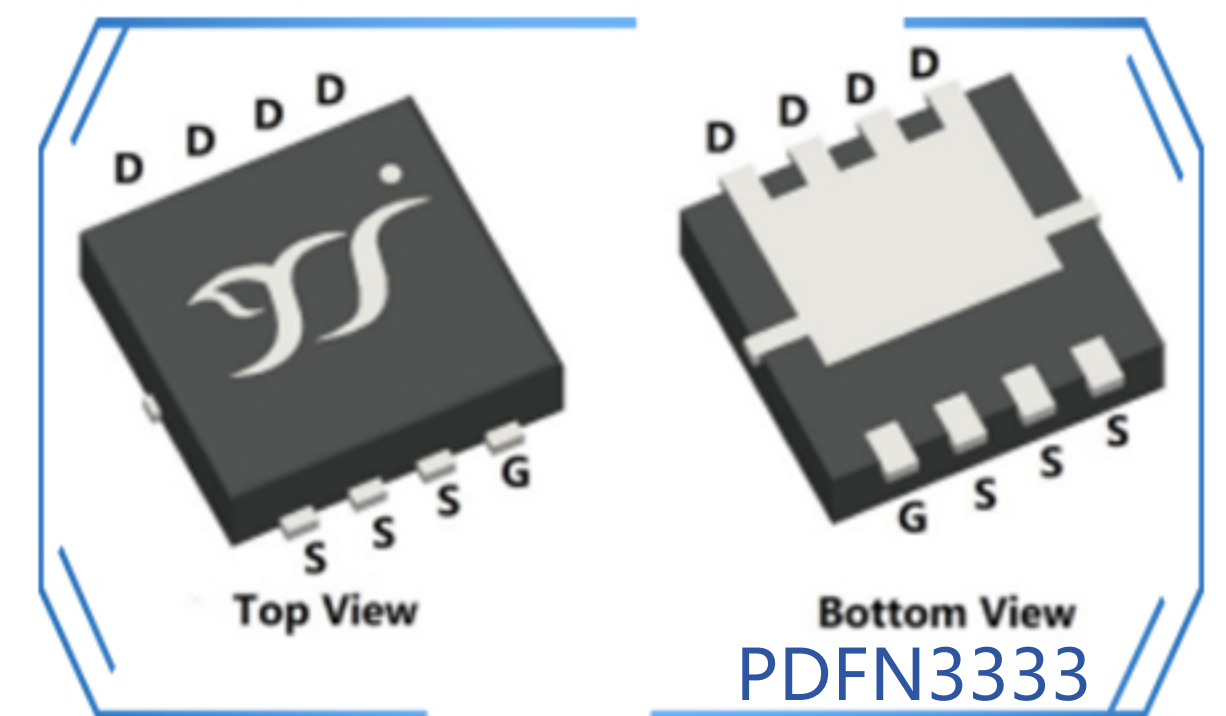
1、 N30V Trench MOSFET for PD VBUS

Product Introduction

On December 24, 2021, Guangdong Fast Charging Alliance was established and released the mobile terminal Universal Fast Charging Specification(UFCS), which marks that China has build its own fast charging compatible standard, and is compatible with PD and QC protocols. In the following years, all domestic fast charger appliances will be compatible with UFCS, and different brands of mobile phones, laptops, and tablets can be quickly charged by using a manufacturer's charger. End users will truly experience "one charge for multi-purpose". Based on China's own UFCS standard and compatible with PD and QC protocols, YangJie Technology launched N30V serialized products, using Trench process, with stronger short-circuit and ESD capabilities.

Product Features

- 1、 Using Trench technology, low profile, low Rds(on), strong short-circuit capability and ESD capability;
- 2、 PDFN3333 package;



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
YJQ35N03A	N	30	35	1.5	4.9	6.5	24	-55-150	PDFN3333-8L
YJQ65N03A			65	1.5	3.75	5	38		PDFN3333-8L

Application



Fast Charge

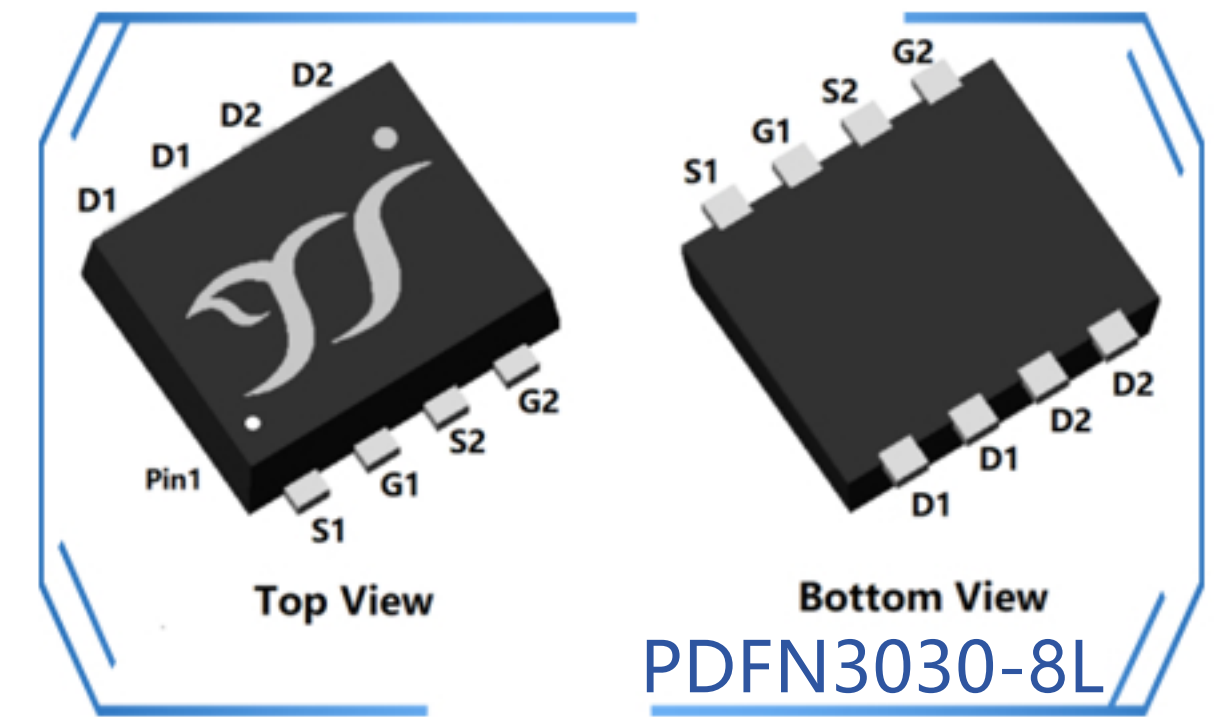


PD VBUS

2、 N+P Dual 30V Trench MOSFET for Fan Control

Product Introduction

In recent years, with the increasing demand for higher power in serve power supply and the trend of minimizing component size, the demand for heat dissipation is becoming increasing challenging. YangJie Technology launched TSMT8 package MOSFET with N+P dual chip assembled, which simplifies the product circuit bridge structure while retaining the flexibility for engineers' applications, and can greatly save the PCB size area, which is suitable for various types of cooling fan products with narrow internal space.



Product Features

1. Compared with DFN3333(3.3 X 3.3 mm) package , this product with smaller size (2.8 X 2.9mm) by using PDFN3030-8L(TSMT8) package of N+P dual-chip assembled, which is more suitable for small fans with extremely requirement on size.
2. The product has the characteristics of strong over-current capability, low thermal resistance and wider range of SOA;
3. NMOS and PMOS are assembled to simplify the circuit bridge structure while retaining the flexibility for engineers' applications.

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
YJU3724A	N	30	4	1.5	26	35	6	-55-150	PDFN3030-8L
	P	-30	3	-1.5	58	75	7		
YJU4606A	N	30	6	1.5	20	26	9	-55-150	PDFN3030-8L
	P	-30	-4	-1.5	33	43	9		

Application

- DC Fan
- EC Fan
- Thin Centrifugal Fan
- Fan Array
- Hot-insert Fan
- Fan Module

