

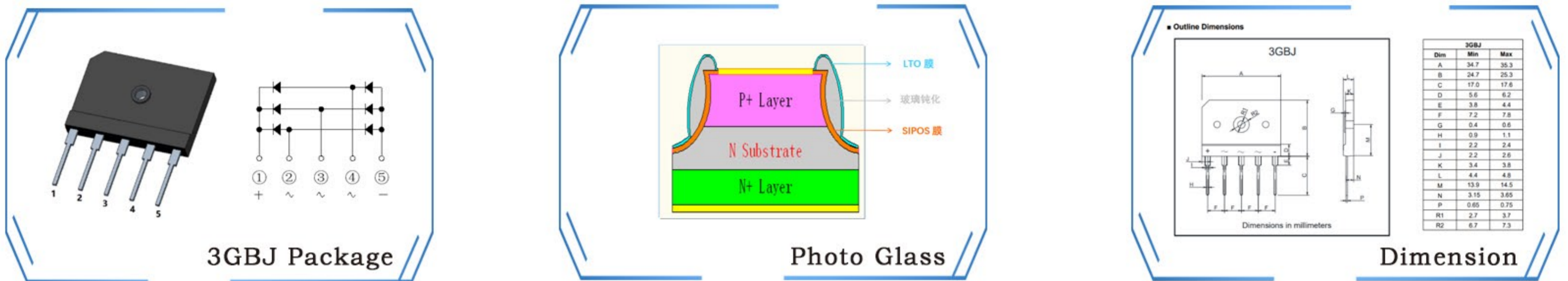
## 3GBJ Three-Phase Bridge Rectifier

### Product Introduction

Single phase rectifier circuit could convert alternating current into direct current by rectifying. But it is only converted by the single phase of the secondary coil of transformer. and the diode is connected to the secondary winding of the single phase transformer. The disadvantage of this circuit is that the ripple coefficient is high.

The three-phase bridge rectifier circuit is composed by 6 diodes, the common cathode group conducts electricity in the positive half cycle, the common anode group conducts electricity in the negative half cycle. The current flows through the transformer in both positive and negative half cycles to improve the utilization rate of transformer. The three-phase rectifier bridge circuit with the advantages of high output voltage, low pulsation, high power factor and fast dynamic response, which is an excellent choice for household appliances, industrial power supplies, industrial automation equipment, welding machines and other applications.

By fully research on market demand, our company find that the demand for 3GBJ package product is relative high in industrial field. Expanding the scope of application of our product in the industrial field is in line with company's overall strategic planning. For this purpose, 3GBJ package of three-phase plug-in bridge series products are developed.



### Product Features

1.The package appearance of 3GBJ three-phase bridge is similar to our 6KBJ, with 5 external pins, larger body, better heat dissipation performance, built-in 6 chips, current range includes 15A, 25A, 35A, 50A, voltage coverage 600V-1600V, with forward voltage reduction, small reverse leakage current, strong surge ability and other characteristics.

2.Youngjie uses deep IDM mode, own wafer design and manufacturing plant, in-house package of Photo Glass process chips, three layers of passivation protection, stable high temperature characteristics and reliability. We can cooperate with customers to develop specified products for specific application scenarios, so as to achieve rapid development and timely delivery.

### Electrical Parameters

Product Name	$V_{RRM}$ (V)	$I_o$ (A)	$I_{FSM}$ (A)	Rated $I_o$ (A)	$V_F$ (V)	$I_R$ ( $\mu$ A)@25°C	$I_R$ ( $\mu$ A)@125°C	$T_j$ (°C)
DG15NA60-DG15NA160	600-1600	15	350	7.5	1.0	5	500	-55 ~ +150
DG25NA60-DG25NA160	600-1600	25	400	12.5	1.05	5	500	-55 ~ +150
DG35NA60-DG35NA160	600-1600	35	450	17.5	1.05	5	500	-55 ~ +150
DG50NA60-DG50NA160	600-1600	50	500	25	1.1	5	500	-55 ~ +150

Please Refer to The Official Website for More Details

### Application



Industrial Power Supply



Industrial Variable-frequency Drive