

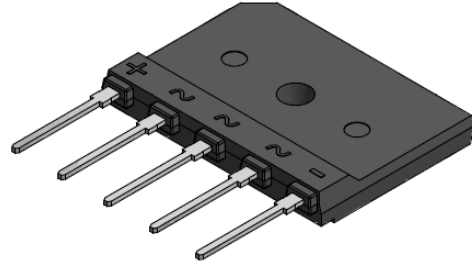
# 3PB3512 Thru 3PB3516

## Glass Passivated Molding Three -Phase Bridge Rectifier

Reverse Voltage 1200 to 1600V Forward Current 35A

### FEATURES

- Superior thermal conductivity
- High current capacity with small package
- Glass passivated chip junctions
- Superior thermal conductivity
- High IFSM
- Plastic Package material has Underwriters Laboratory Flammability Classification 94V-0



### 1. Maximum & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

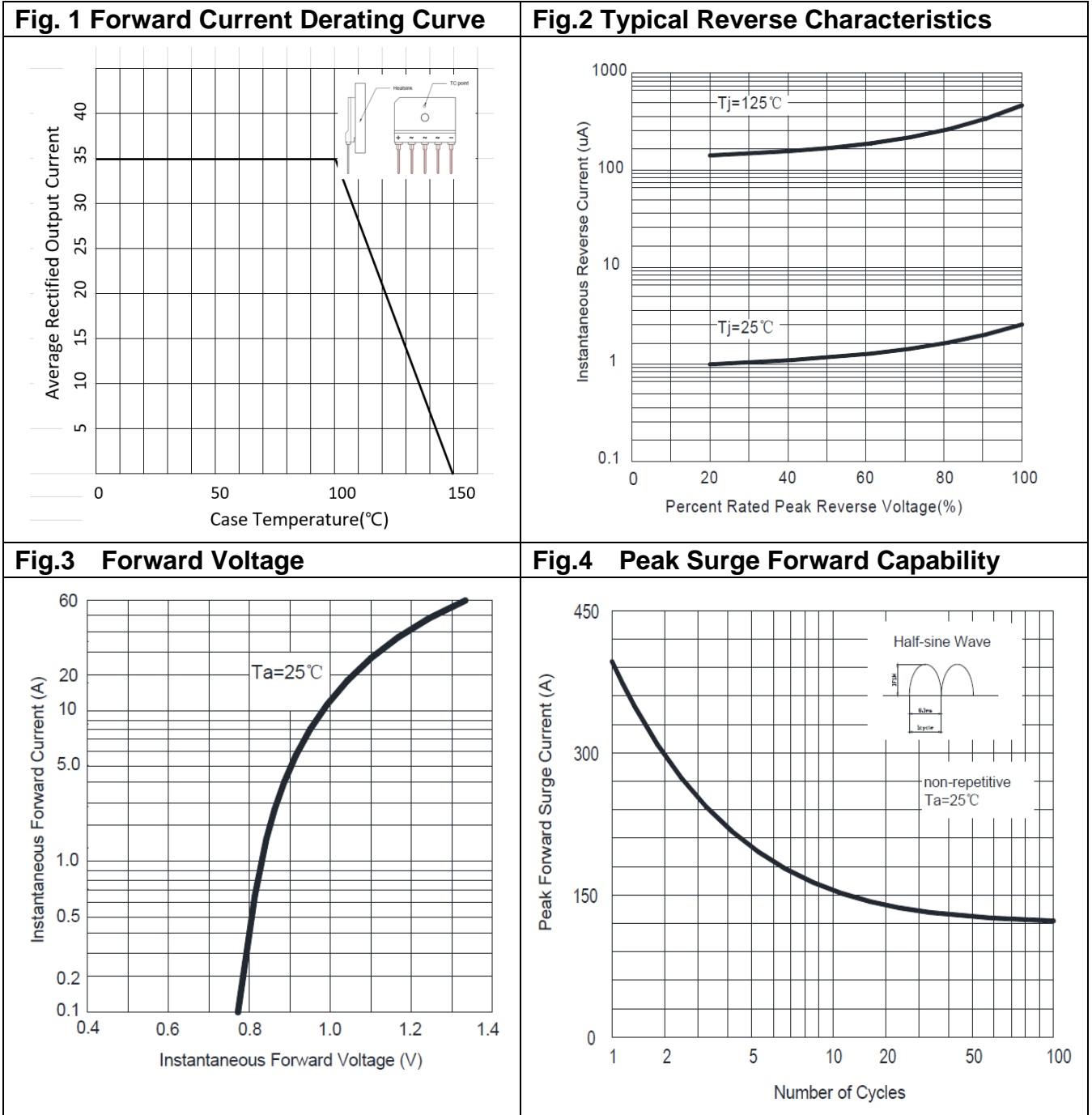
Item	Symbol	3PB3512	3PB3514	3PB3516	Unit
Maximum repetitive voltage	VRM	1200	1400	1600	V
Maximum RMS Voltage	VRMS	840	980	1120	V
Maximum DC Blocking Voltage	VDC	1200	1400	1600	V
Peak Reverse Current (per leg) @Tj = 25°C	IR	10			μA
At Rated DC Blocking Voltage @Tj = 125°C		5			mA
Average rectified forward current 60Hz sine wave, R-load with heatsink Tj<=150°C	Io	35			A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	IFSM	400			A
I <sup>2</sup> t Rating for Fusing	I <sup>2</sup> t	660			A <sup>2</sup> sec
RMS Isolation Voltage from Case to Lead	V <sub>ISOL</sub>	2500			V
Max instantaneous forward voltage @17.5A/25°C	VF	1.1			V
Typical Thermal Resistance without heatsink(1)	RθJA	5			°C/W
Typical Thermal Resistance with heatsink(2)	RθJC	0.6			°C/W
Max operating junction temperature	Tj	150			°C
Storage temperature	Tstg	-55~150			°C
Max Mounting torque	Tor	0.8			N • m

#### Note

- (1) Unit mounted on P.C.B without heatsink
- (2) Unit case mounted on aluminum 110x60x25mm plate heatsink

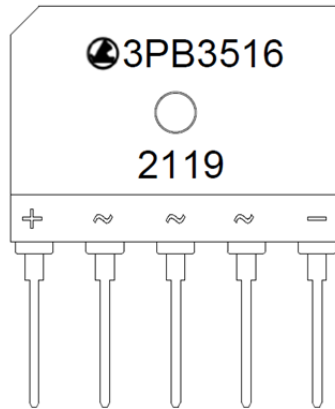
# 3PB3512 Thru 3PB3516

## 2. Ratings and Characteristic Curves ( $T_A = 25^\circ\text{C}$ unless otherwise noted )



# 3PB3512 Thru 3PB3516

## 3. Marking Identification



### Note:

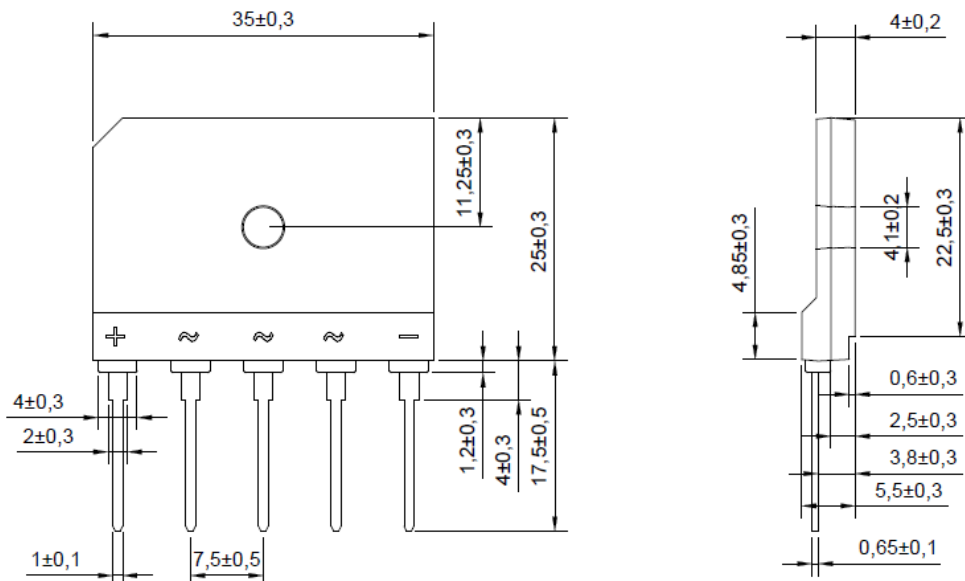
生产日期码包含4位数字，例如“2119”，前两个数字“21”表示为2021年，另外二个数字“19”是指第19周，即表示该产品为2021年19周生产。

型号:

**3PB** **35** **16**

	Maximum Reverse Voltage 12: 1200V 14: 1400V 16: 1600V
	Maximum Average Forward Rectified Current 35: 35A
	Category 3PB: 3PB series bridge

## 4. Dimension



# 3PB3512 Thru 3PB3516

## 5. Update Record

版次	更新记录	更新作者	更新日期
1	第一版	伍泽雄	2021-5-10
2	增加 Tstg 温度下限值	陈帅	2021-8-18

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