

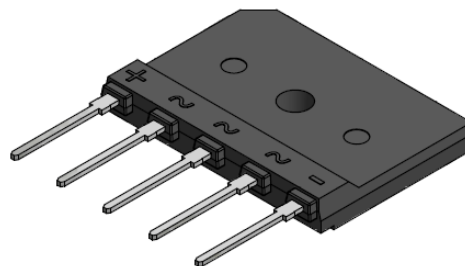
3PB2512 Thru 3PB2516

High Current Glass Passivated Molding Three -Phase Bridge Rectifier

Reverse Voltage 1200 to 1600V Forward Current 25A

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



Maximum Ratings & Electrical Characteristics (TA = 25°C unless otherwise specified.)

Parameters	Symbol	3PB2512	3PB2514	3PB2516	Unit
Maximum repetitive voltage	V_{RM}	1200	1400	1600	V
Maximum RMS Voltage	V_{RMS}	840	980	1120	V
Maximum DC Blocking Voltage	V_{DC}	1200	1400	1600	V
Peak Reverse Current (per leg) @Tj = 25°C	I_R	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	$I_{F(AV)}$	25			A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	350			A
I ² t Rating for Fusing	I^2t	508			A ² sec
RMS Isolation Voltage from Case to Lead	V_{ISOL}	2500			V
Max instantaneous forward voltage @12.5A/25°C	V_F	1.1			V
Typical Thermal Resistance without heatsink(1)	$R_{\theta JA}$	5			°C/W
Typical Thermal Resistance with heatsink(2)	$R_{\theta JC}$	0.6			°C/W
Max operating junction temperature	T_J	150			°C
Storage temperature	T_{STG}	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

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Electrical Characteristic Curves (TA = 25°C unless otherwise specified.)

Fig. 1 Forward Current Derating Curve

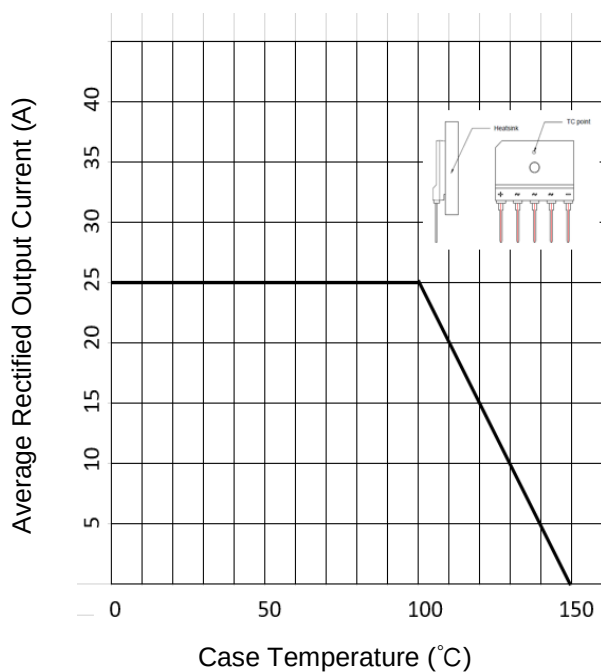


Fig.2 Typical Reverse Characteristics

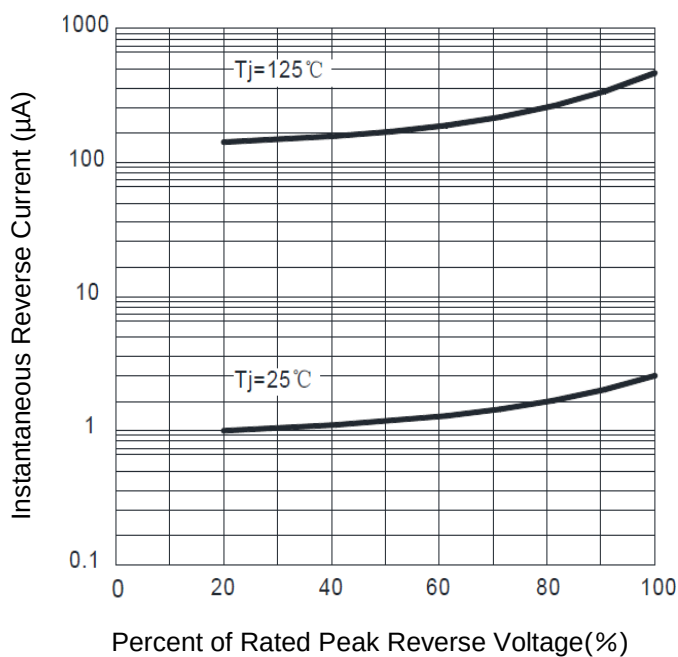


Fig. 3 Forward Voltage

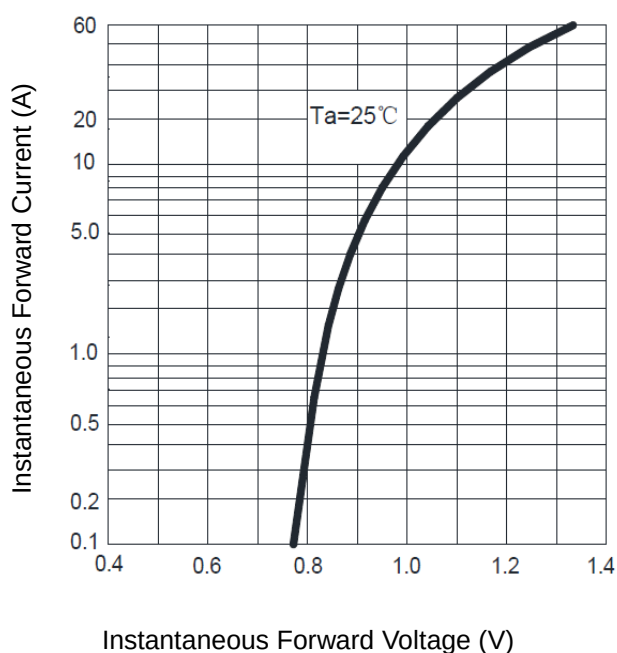
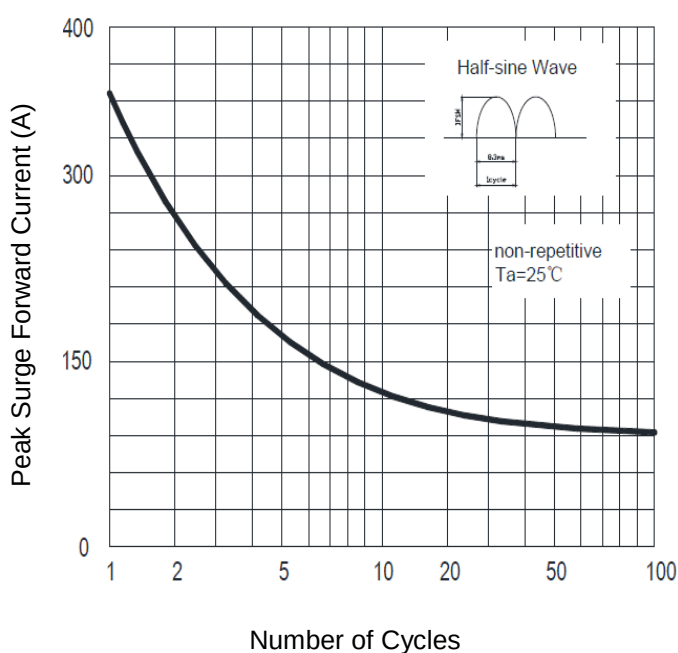
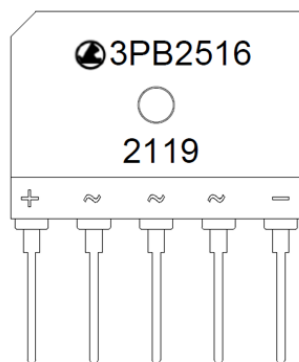


Fig. 4 Peak Surge Forward Capability



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Marking Identification



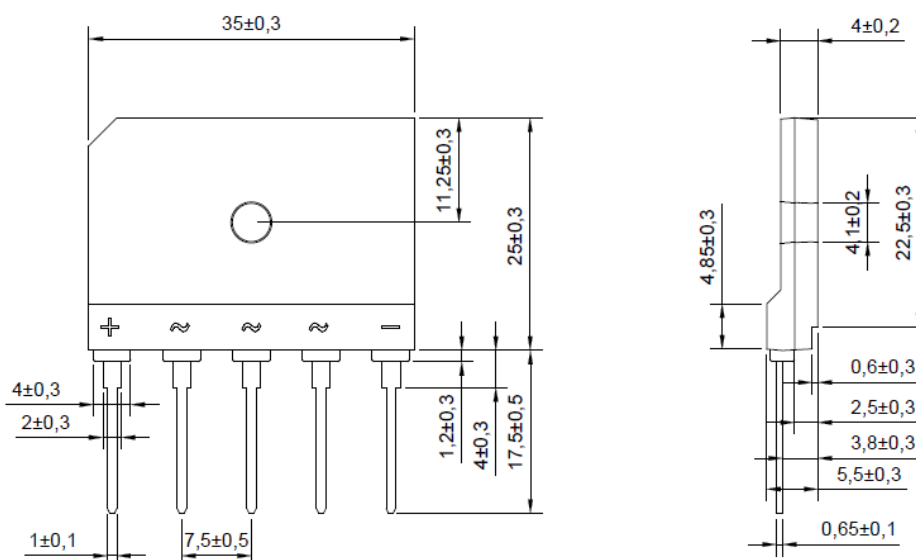
Note:

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** **25** **16**

Maximum Reverse Voltage
12: 1200V 14: 1400V 16: 1600V
Maximum Average Forward Rectified Current
25: 25A
Category
3PB: 3PB series bridge

Package Dimensions



3PB2512 Thru 3PB2516

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