

**High Current Glass Passivated Molding Three-Phase Bridge Rectifier**

**Voltage - 1600 V**

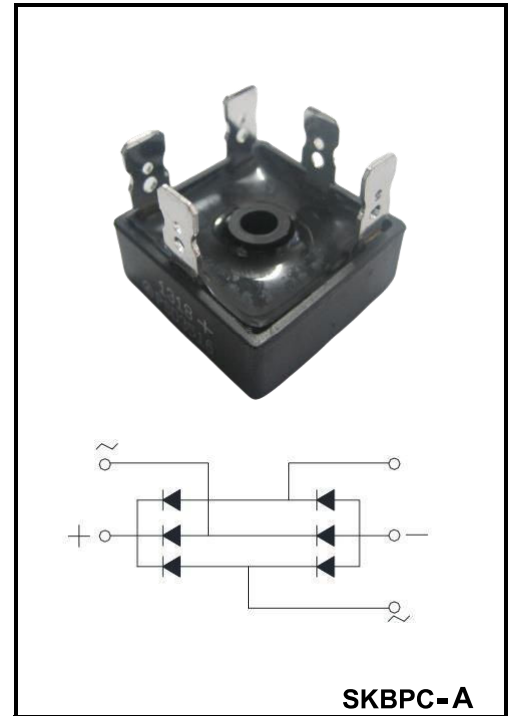
**Forward Current –75 A**

**FEATURES**

- ◆High current capability
- ◆Low forward voltage drop
- ◆Glass Passivated ChipJunction
- ◆Low power loss, high efficiency
- ◆LeadfreeincomplywithEUroHS2011/65/EUdirectives

**MECHANICAL DATA**

- ◆Case:SKBPC,
- ◆Terminals: Solderable per MIL-STD-202, Method208
- ◆Approx. Weight: SKBPC 28g



**Maximum Ratings and Electrical characteristics**

Ratings at 25 °C ambient temperature unless otherwise specified.

Parameter	Symbols	SKBPC7516	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	1600	V
Maximum RMS voltage	$V_{RMS}$	1120	V
Maximum DC Blocking Voltage	$V_{DC}$	1600	V
Maximum Average Forward Rectified Current ,50Hz Sine wave resistance load $T_c=85^{\circ}C$	$I_{(AV)}$	75	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	600	A
Maximum Forward Voltageat 75A DC and 25°C	$V_F$	Max 1.05	V
Maximum Reverse Currentat $T_A=25^{\circ}C$	$I_R$	10	$\mu A$
Typical Thermal Resistance per Element	$R_{\theta JC}$	1.5	$^{\circ}C/W$
Storage Temperature	$T_{stg}$	-40~ 150	$^{\circ}C$
Openrating junction Temperature	$T_j$	150	$^{\circ}C$

**Characteristics (Typical)**

FIG1:Io-Tc Curve

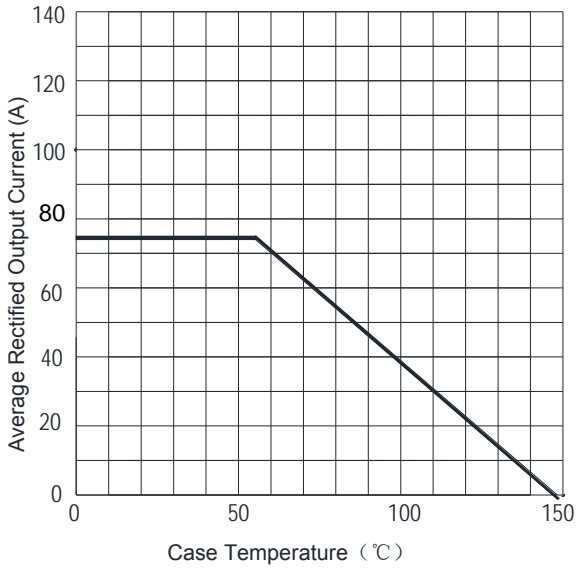


FIG2: Surge Forward Current Capability

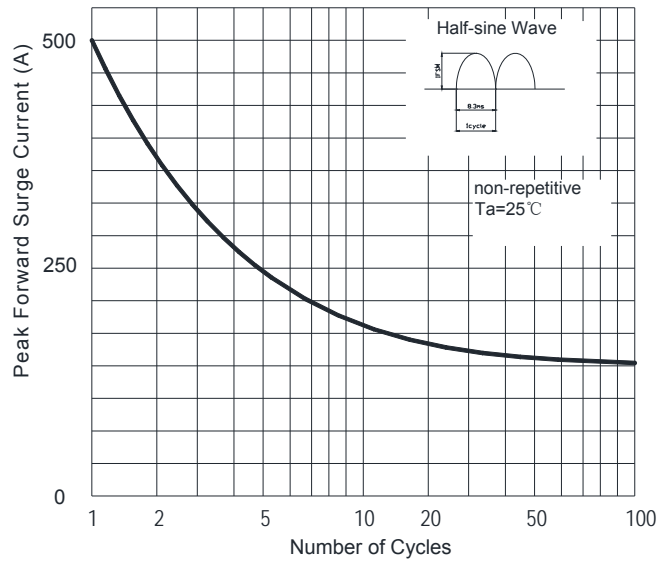


FIG3: Instantaneous Forward Voltage

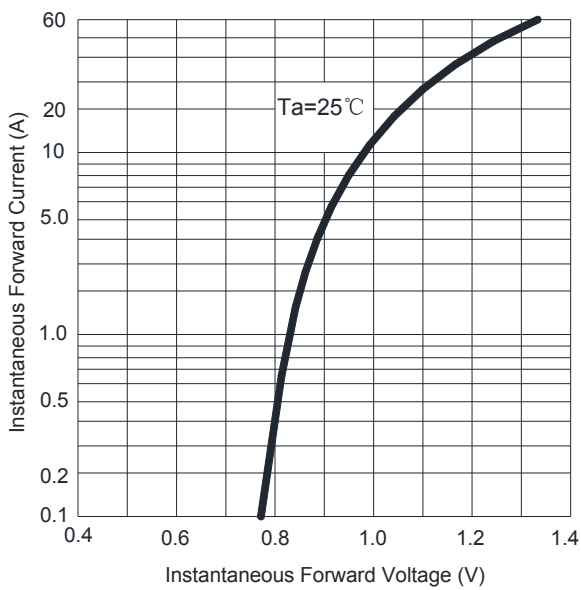
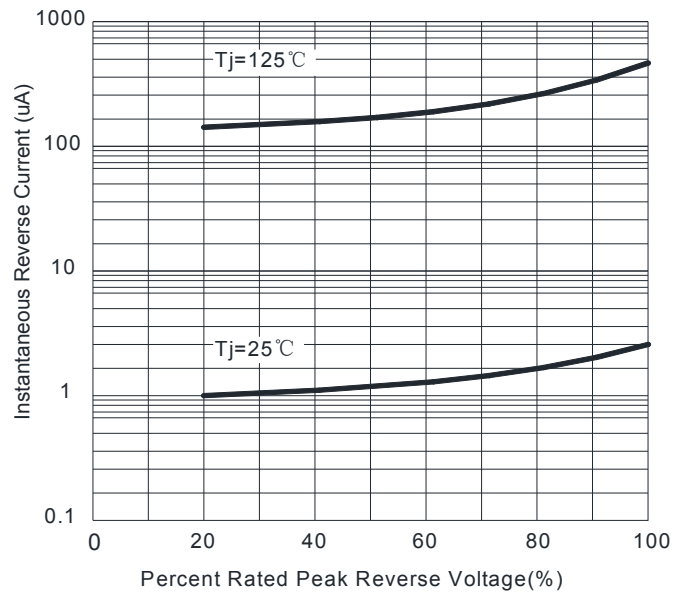
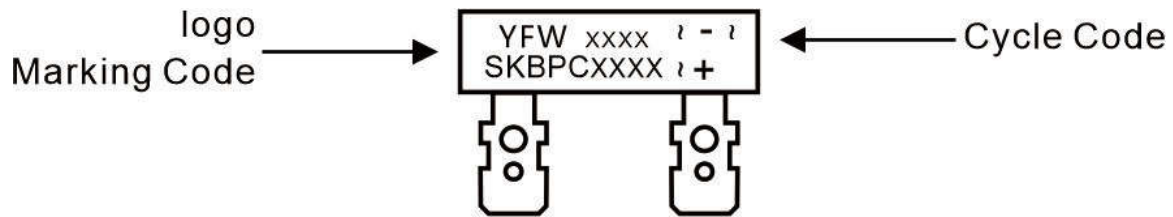


FIG4: Typical Reverse Characteristics



**Marking Diagram**

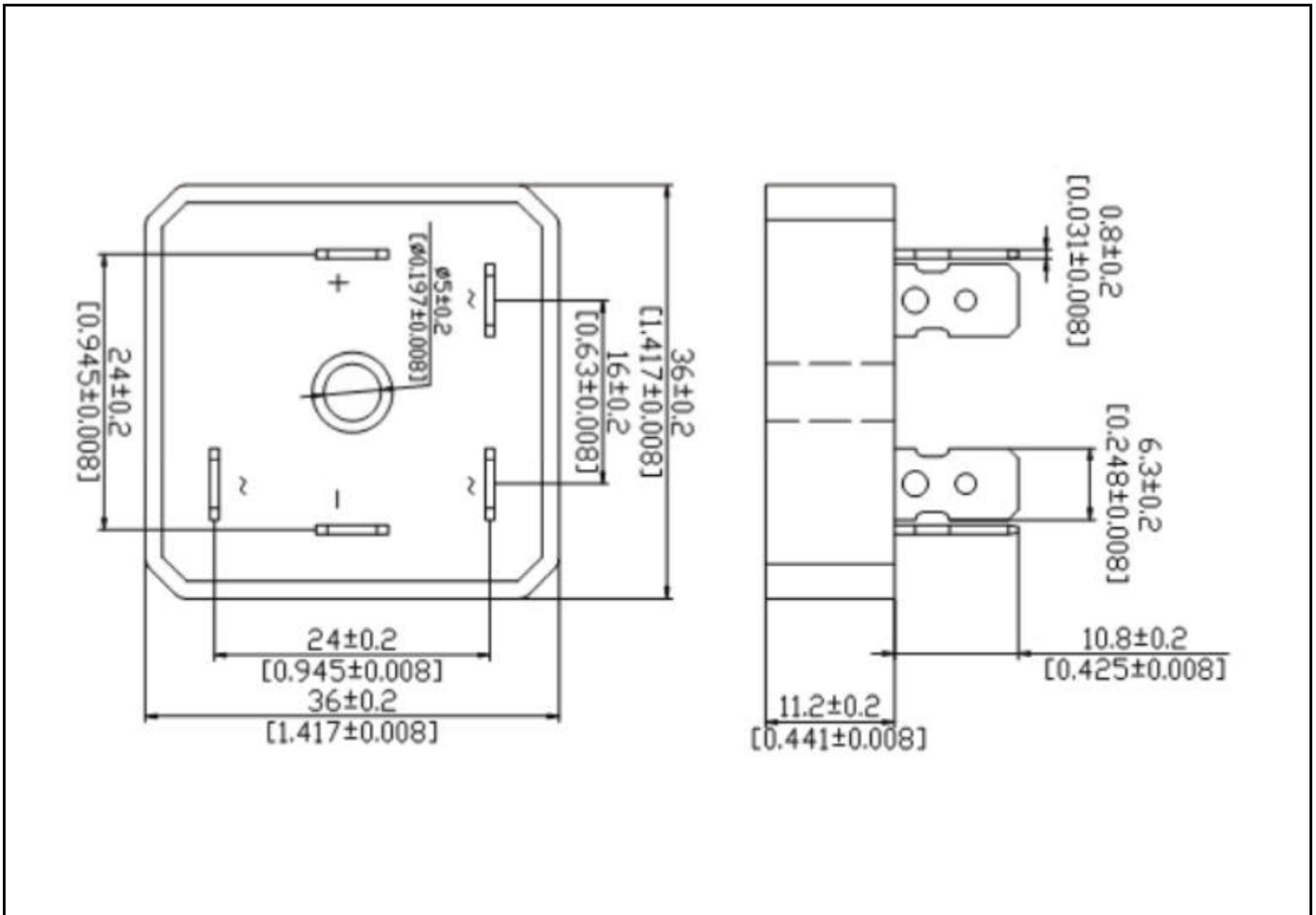


**Ordering information**

Package	Packing Description	Packing Quantity
SKBPC-A	bulk	50PCS/Box 500PCS/Carton

**Package Dimensions**

SKBPC-A (Dimensions in mm inch)



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