

Three- Phase Bridge Rectifier Modules

Reverse Voltage - 1600 V

Forward Current -75 A

FEATURES

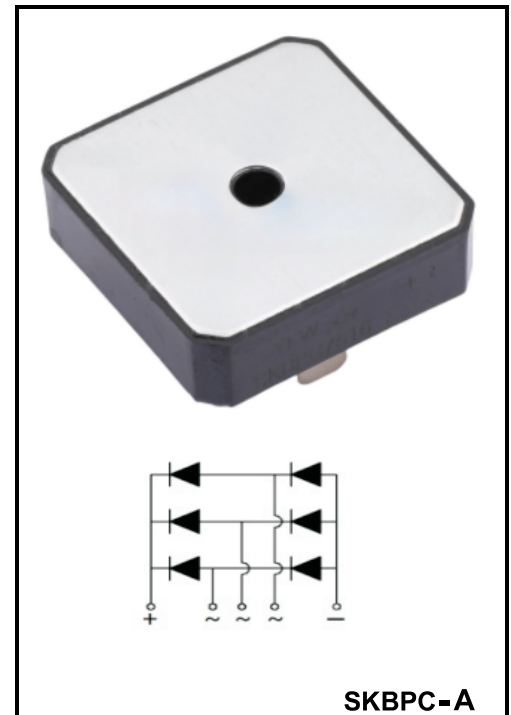
- ◆Glass passivated chip
- ◆Low reverse leakage current
- ◆High surge current capability

APPLICATIONS

- ◆Frequency converter
- ◆Industrial power supply

MECHANICAL DATA

- ◆Case:SKBPC-A
- ◆Polarity: Polarity symbols being marked on body
- ◆Mounting torque: 12.0 kgf.cm max
- ◆Weight : About 31 g rams



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 $T_c=85^{\circ}\text{C}$	$I_{(AV)}$	75	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	750	A
Rating for fusing $1\text{ms}<t<8.3\text{ms}$ $T_J=25^{\circ}\text{C}$, Rating of per diode	I^2t	2334	A^2S
Maximum Forward Voltage at $I_F=37.5\text{A}$	V_F	1.1	V
Maximum Reverse Current at $T_J=25^{\circ}\text{C}$ $T_J=125^{\circ}\text{C}$	I_R	5 500	μA
Junction to ambient thermal resistance, without heatsink	$R_{\theta JA}$	18	$^{\circ}\text{C}/\text{W}$
Junction to case thermal resistance, with heatsink	$R_{\theta JC}$	0.75	$^{\circ}\text{C}/\text{W}$
Storage Temperature	T_{stg}	-55~ 150	$^{\circ}\text{C}$
Openrating junction Temperature	T_J	-55~ 150	$^{\circ}\text{C}$
Dielectric strength terminals to case AC 1 minute	V_{dis}	2.5	KV

Characteristic Curve

FIG1.Derating Curve For Output Rectified Current

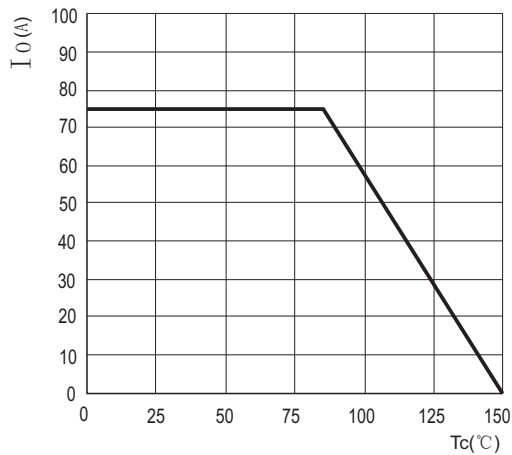


FIG2.Maximum NonRepetitive Peak Forward Surge CurrentPer Bridge Element

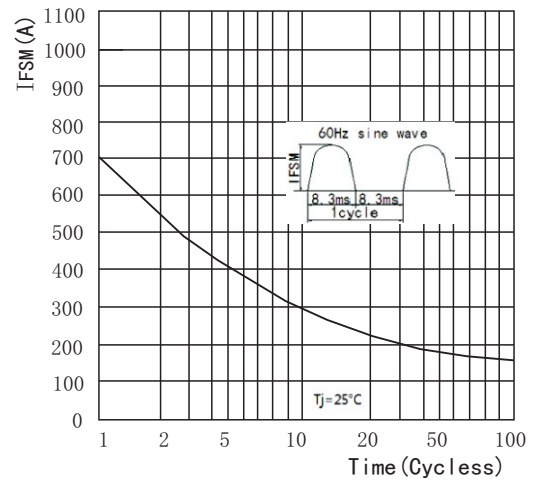


FIG3.Typical Reverse Characteristics Per Bridge Element

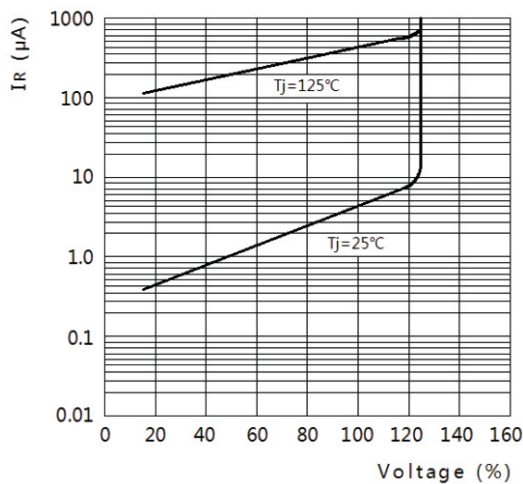
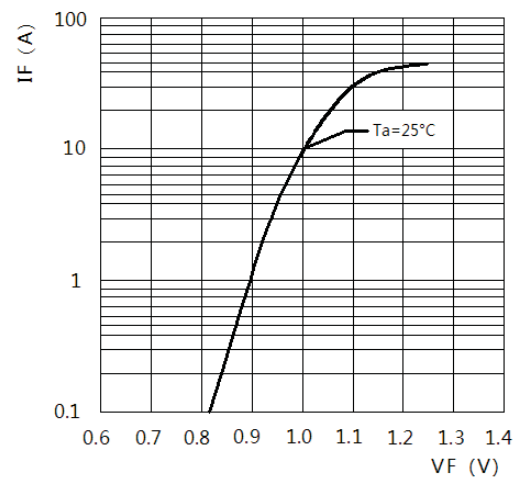
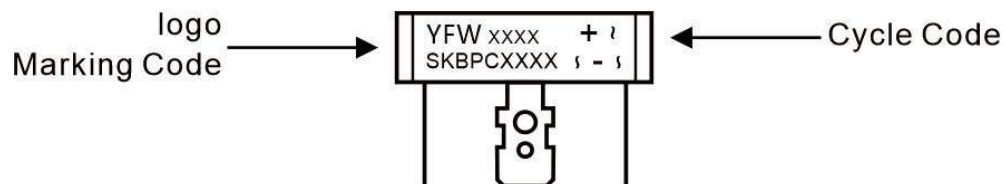


FIG4 Typical Forward Characteristics Per Bridge Element



Marking Diagram

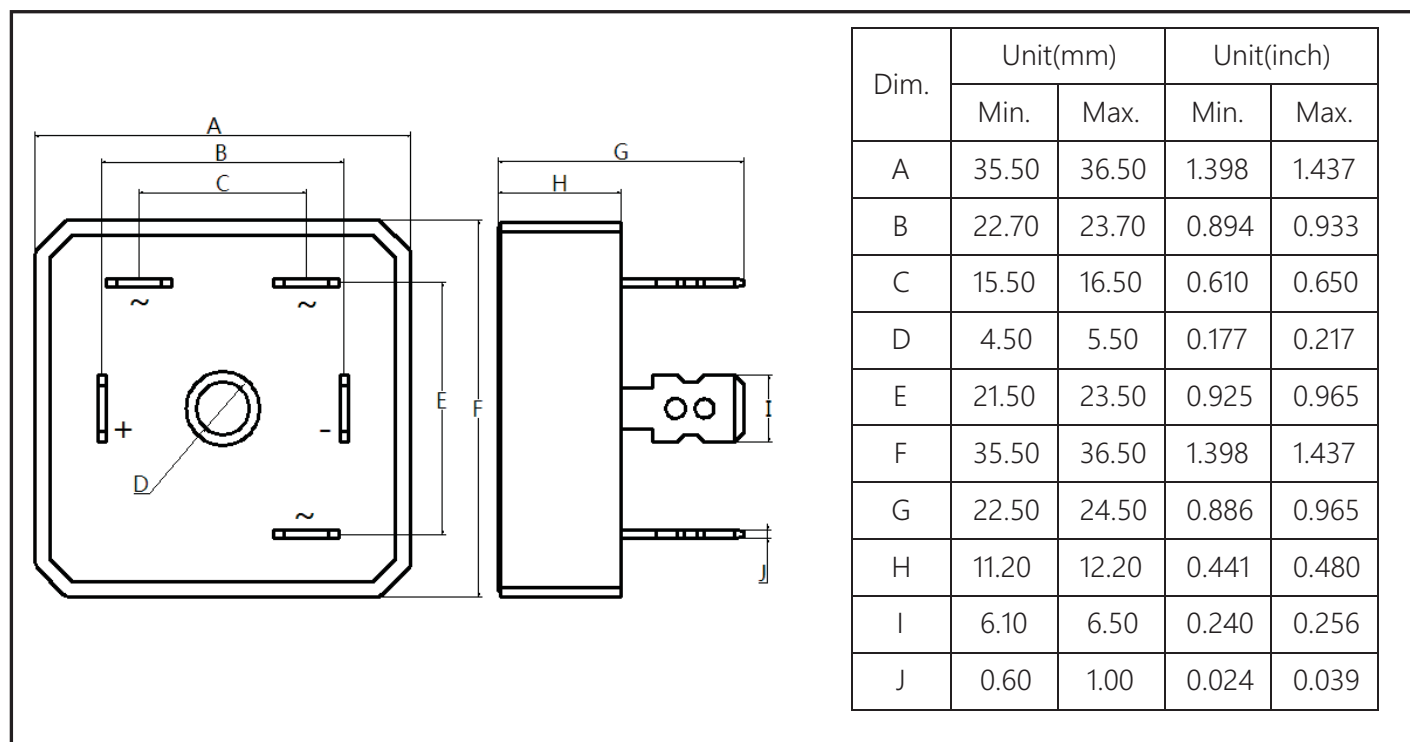


Ordering information

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

Package Dimensions

SKBPC-A



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