

Three- Phase Bridge Rectifier Modules

V_{RRM} - 600 to 1200 V

$I_{(AV)}$ - 75A

FEATURES

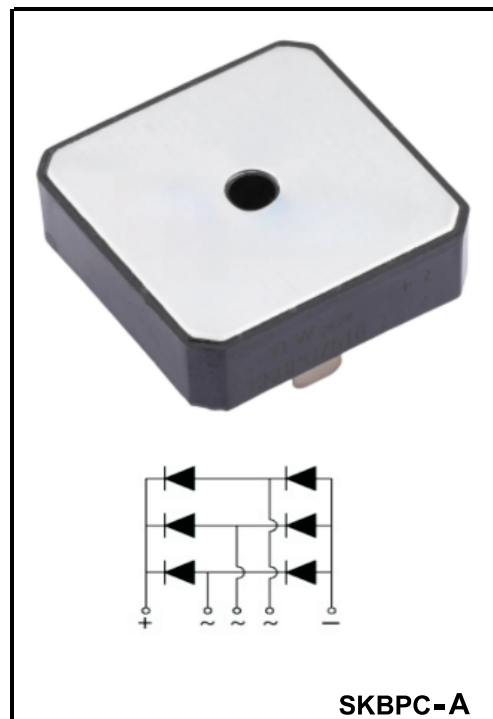
- ◆Glass passivated chip
- ◆Low reverse leakage current
- ◆High surge current capability

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 grams



Maximum Ratings @ $T_a = 25^{\circ}\text{C}$ unless otherwise noted

PARAMETER	SYMBOL	SKBPC7506	SKBPC7508	SKBPC7510	SKBPC7512	UNIT
Maximum recurrent peak reverse voltage	V_{RRM}	600	800	1000	1200	V
Maximum RMS voltage	V_{RMS}	420	560	700	840	V
Maximum DC Blocking Voltage	V_{DC}	600	800	1000	1200	V
Average rectified output current with heatsink, $T_C = 85^{\circ}\text{C}$	$I_{(AV)}$	75				A
Peak surge forward 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
Peak Forward Voltage $I_F = 37.5\text{A}$	V_F	1.1				V
Peak Reverse Current $T_J = 25^{\circ}\text{C}$ $V_R = V_{RRM}$, Pulse measurement Rating of per diode $T_J = 125^{\circ}\text{C}$	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}	$-55 \sim +150$				$^{\circ}\text{C}$
Junction temperature	T_J	$-55 \sim +150$				$^{\circ}\text{C}$
Dielectric strength terminals to case AC 1 minute	V_{dis}	2.5				KV

Performance Curves

FIG 1 .Derating Curve For Output Rectified Current

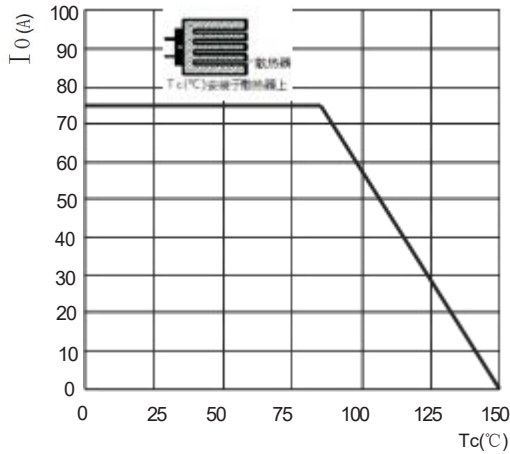


FIG2 .Maximum Non-Repetitive Peak Forward Surge Current Per Bridge Element

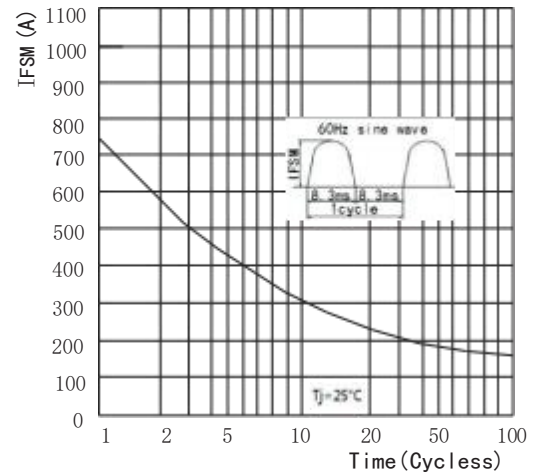


FIG3. Typical Reverse Characteristics Per Bridge Element

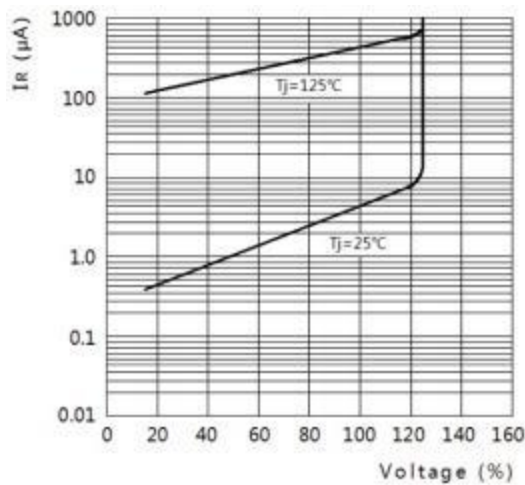
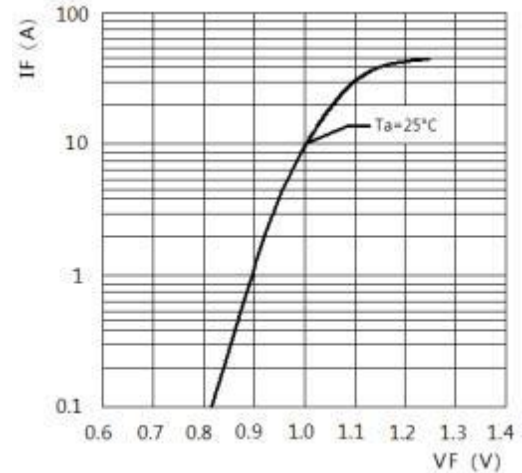
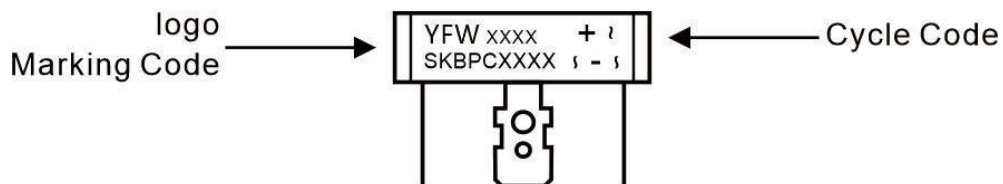


FIG4. Typical Forward Characteristics Per Bridge Element



Marking Diagram

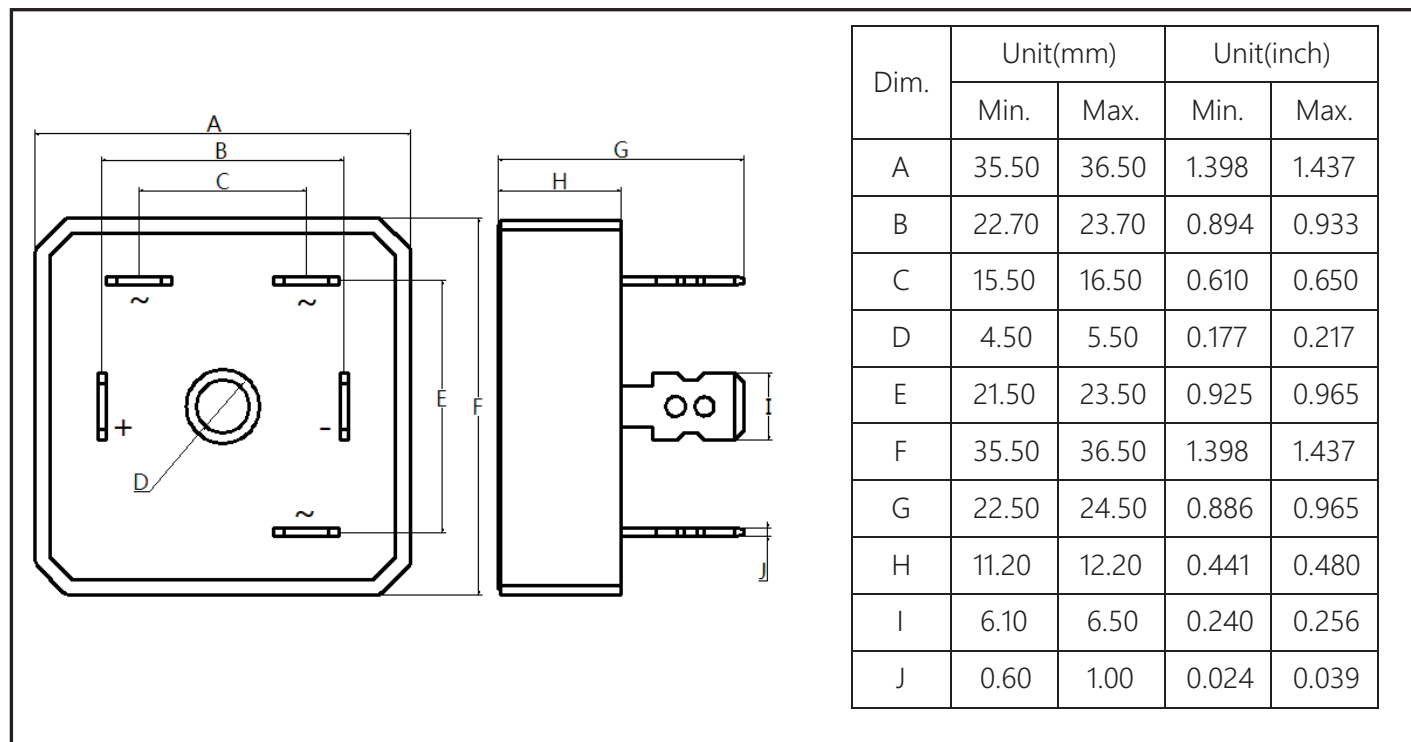


Ordering information

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

Package Dimensions

SKBPC-A



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