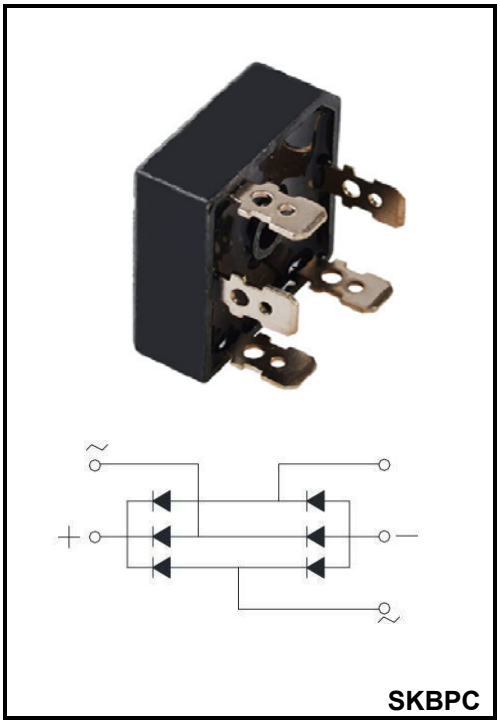
Three- Phase Bridge Rectifier Modules

Reverse Voltage- 800 to 1800 V

$I_{(AV)}$ - 25 A



SKBPC

FEATURES

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

APPLICATIONS

- Frequency converter
- Industrial power supply

MECHANICAL DATA

- Case:SKBPC
- Polarity: Polarity symbols being marked on body
- Mounting torque:12.0 kgf.cm max
- Weight: About18 grams

Maximum Ratings @ Ta = 25℃ unless otherwise noted

Parameter	Symbols	SKBPC 2508	SKBPC 2510	SKBPC 2512	SKBPC 2516	SKBPC 2518	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	800	1000	1200	1600	1800	V
Maximum RMS voltage	V_{RMS}	560	700	840	1120	1400	V
Maximum DC Blocking Voltage	V_{DC}	800	1000	1200	1600	1800	V
Average rectifiedoutputcurrent with heatsink, T_C =85℃	$I_{(AV)}$	25					A
Peak surge forward current, 8.3mssingle half sine-wave superimposed on rated load	I_{FSM}	300					A
Forward Voltage I_F=12.5A	V_F	1.1					V
Maximum Reverse Currentat T_A=25℃ T_A=125℃	I_R	5 500					μA
Rating for fusing1ms<t<8.3ms Tj=25℃, Rating of per diode	I^2t	508					A^2s
Openrating junction Temperature	T_j	-55～+150					℃
Storage Temperature	T_{stg}	-55～+150					℃
Dielectric strength,Terminals to case AC 1 minute	V_{dis}	2.5					kv
Junction to ambientthermalresistance, without heatsink	$R_{\theta JA}$	18					℃/W
Thermal reslstance,Junction to Case	$R_{\theta JC}$	1.2					℃/W

Characteristic Curve

FIG 1 .Derating Curve For Output Rectified Current

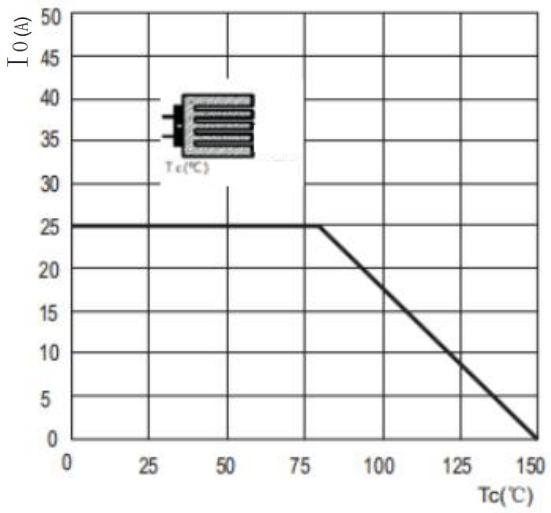


FIG2 .Maximum Non-Repetitive Peak ForwardSurge CurrentPer Bridge Element

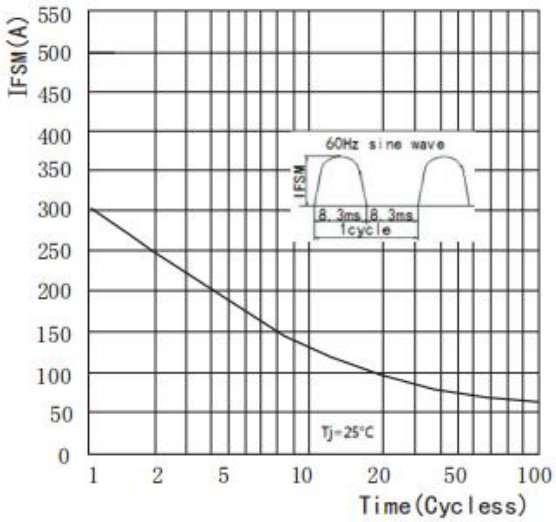
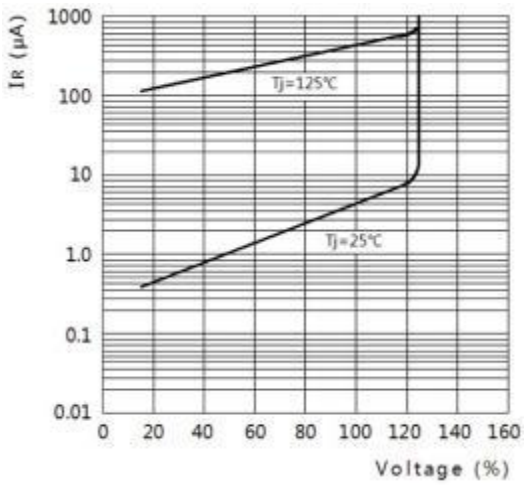
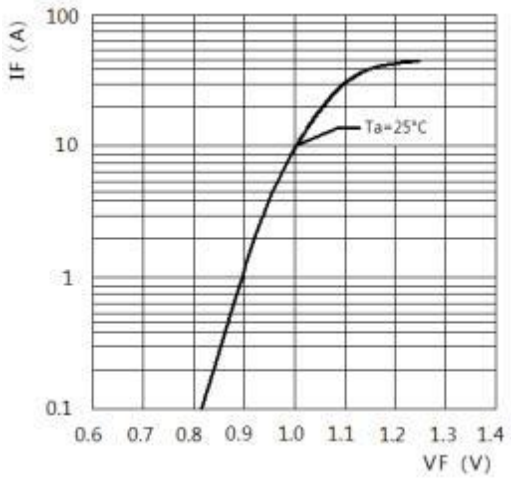


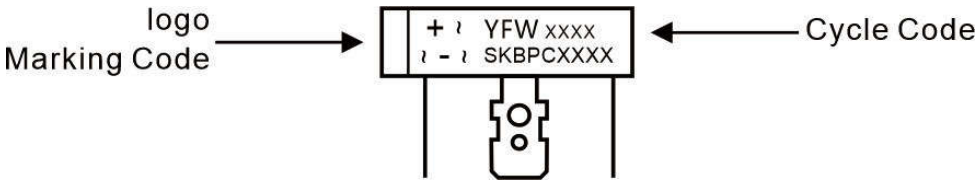
FIG3.Typical Reverse Characteristics Per Bridge Element



FI G4.Typical Forward Characteristics Per Bridge Element



Marking Diagram

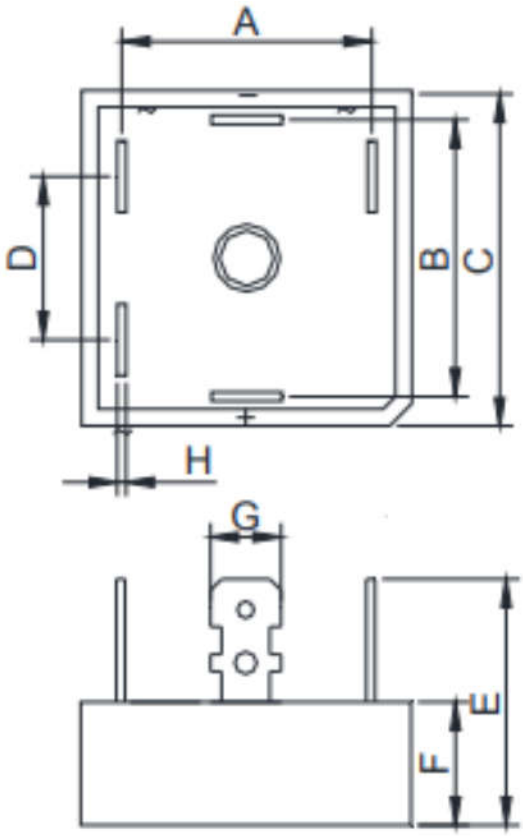


Ordering information

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

Package Dimensions

SKBPC



Dim.	Millimeter(mm)		Dimensions inInch	
	Min.	Max.	Min.	Max.
A	23.1	24.1	0.91	0.95
B	23.1	24.1	0.91	0.95
C	28.2	28.8	1.11	1.13
D	16	17	0.63	0.67
E	22	24	0.87	0.94
F	9.4	10	0.37	0.39
G	6.2	6.4	0.24	0.25
H	0.75	0.85	0.03	0.03

Disclaimer

The information presented in this document is for reference only. GuangDong Youfeng Microelectronics Co.,Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise. The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices),YFW or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale. This publication supersedes & replaces all information previously supplied. For additional information, please visit our website https://www.yfwdiode.com, or consult YFW sales office for further assistance.