

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}	400	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	μA
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

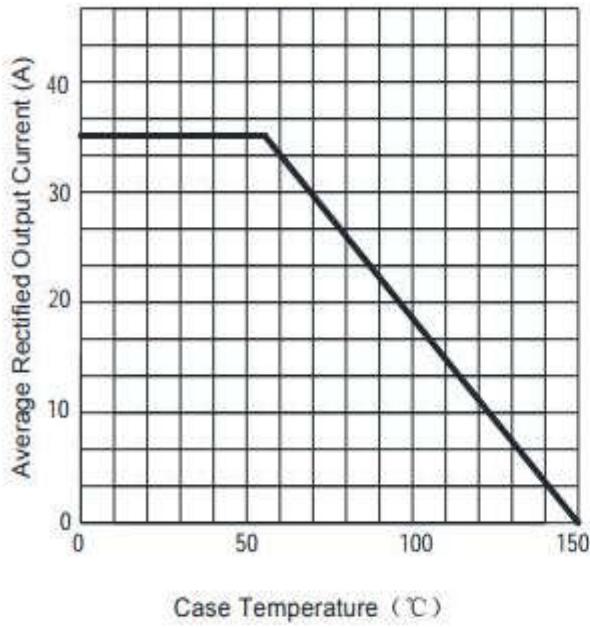


FIG2:Surge Forward Current Capability

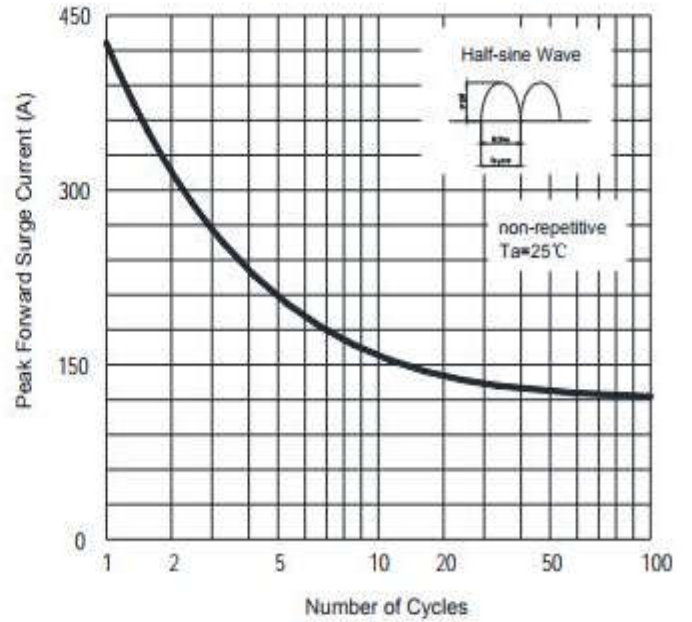


FIG3:Instantaneous Forward Voltage

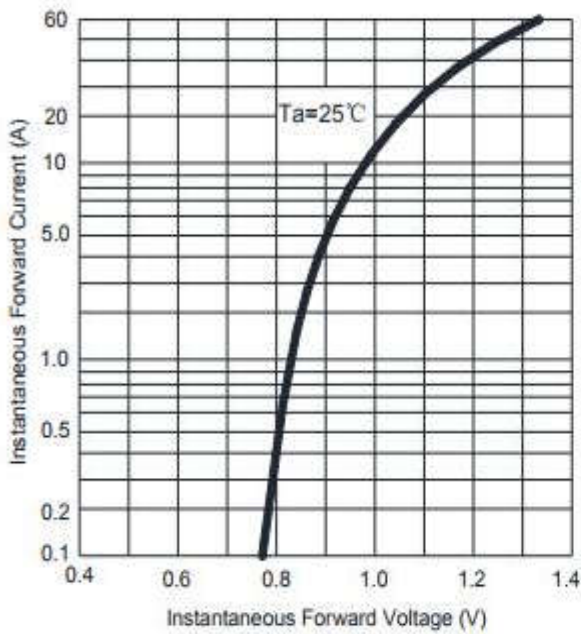
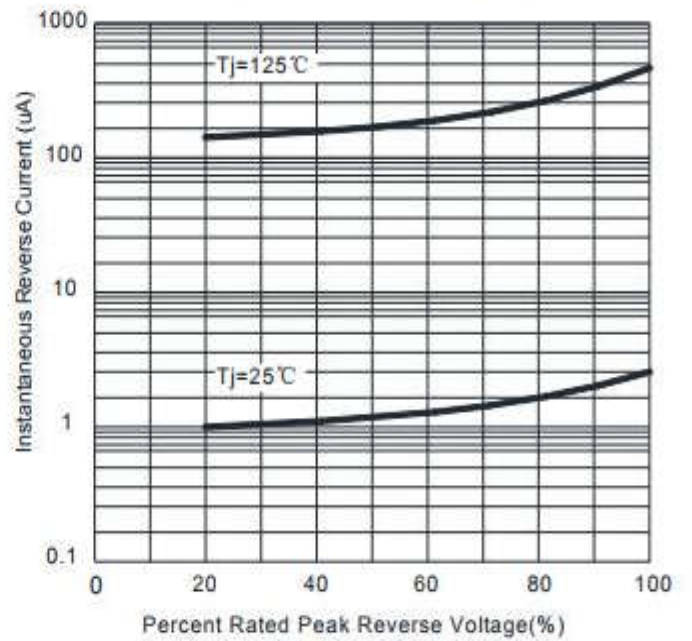
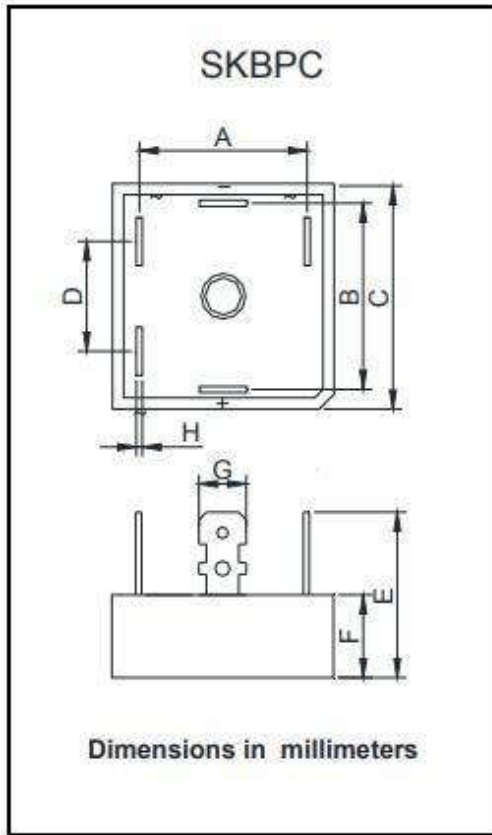


FIG4:Typical Reverse Characteristics

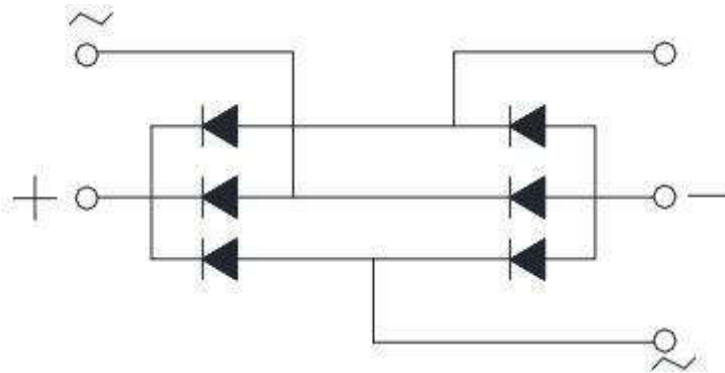


Package Outline

SKBPC



SKBPC		
Dim	Min	Max
A	23.1	24.1
B	23.1	24.1
C	28.2	28.8
D	16	17
E	/	25
F	9.4	10
G	6.2	6.4
H	0.75	0.85



Summary of Packing Options

Package	Package Description	Packing Quantity	Industry Standard
SKBPC	BOX	50	EIA-481-1

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