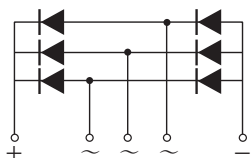


Three-phase Bridge Rectifiers

SKBPC



Features

- I_O : 25A
- V_{RRM} : 1200V~1600V
- Glass passivated chip
- High surge forward current capability

Applications

- General purpose 3 phase Bridge rectifier applications

Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	SKBPC2512	SKBPC2514	SKBPC2516	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	1200	1400	1600	V
Maximum RMS voltage	V_{RMS}	840	980	1120	V
Maximum DC Blocking Voltage	VDC	1200	1400	1600	V
Average Rectified Output Current	I_O	25.0			A
60Hz sine wave, 1 cycle, $T_a=25^{\circ}C$	IFSM	400			A
1ms≤t<8.3ms $T_j=25^{\circ}C$ Rating of per diode	I^2t	660			A ² S
Terminals to case ,AC 1 minute	V_{ISO}	2500			V
$I_{FM}=8.5A$, Pulse measurement, Rating of per	VFM	1.2			V
$V_{RM}=V_{RRM}$, Pulse measurement, Rating of per diode	IRRM	10			> A
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150			°C
Between junction and case, With heatsink	R_{thJC}	1.9			°C/W

RATINGS AND CHARACTERISTICS CURVES (TA = 25 °C unless otherwise noted)

FIG1:Io-Ta Curve

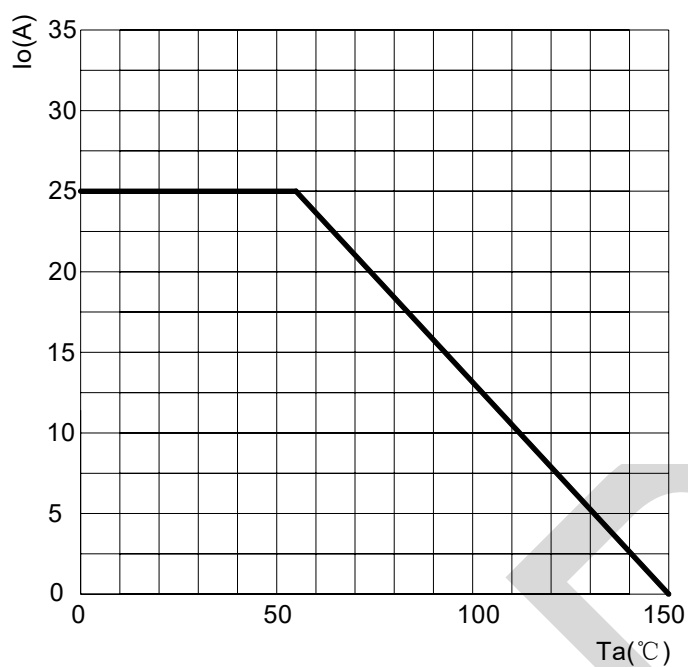


FIG2: Surge Forward Current Capacity

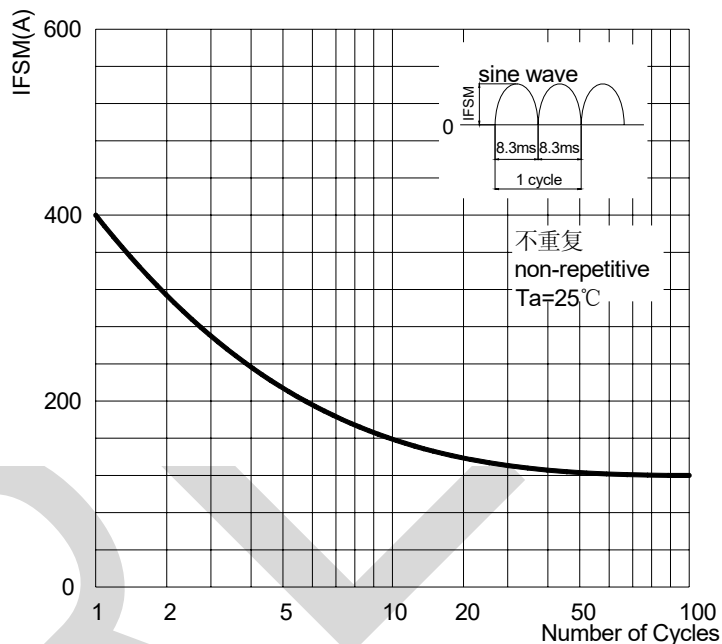


FIG3: Instantaneous Forward Voltage

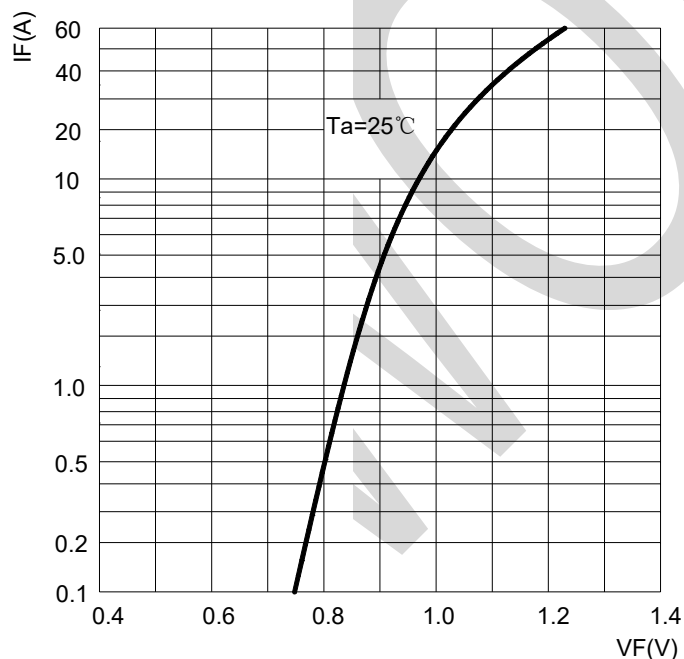
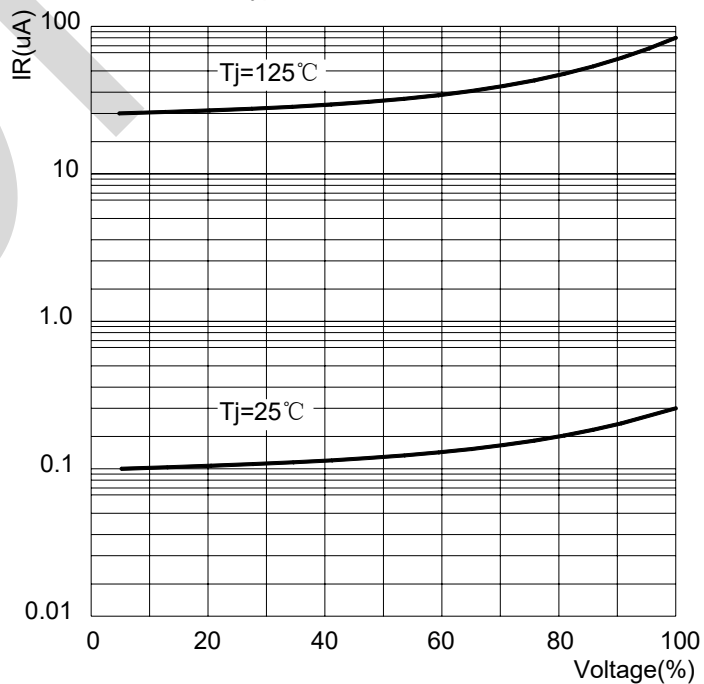
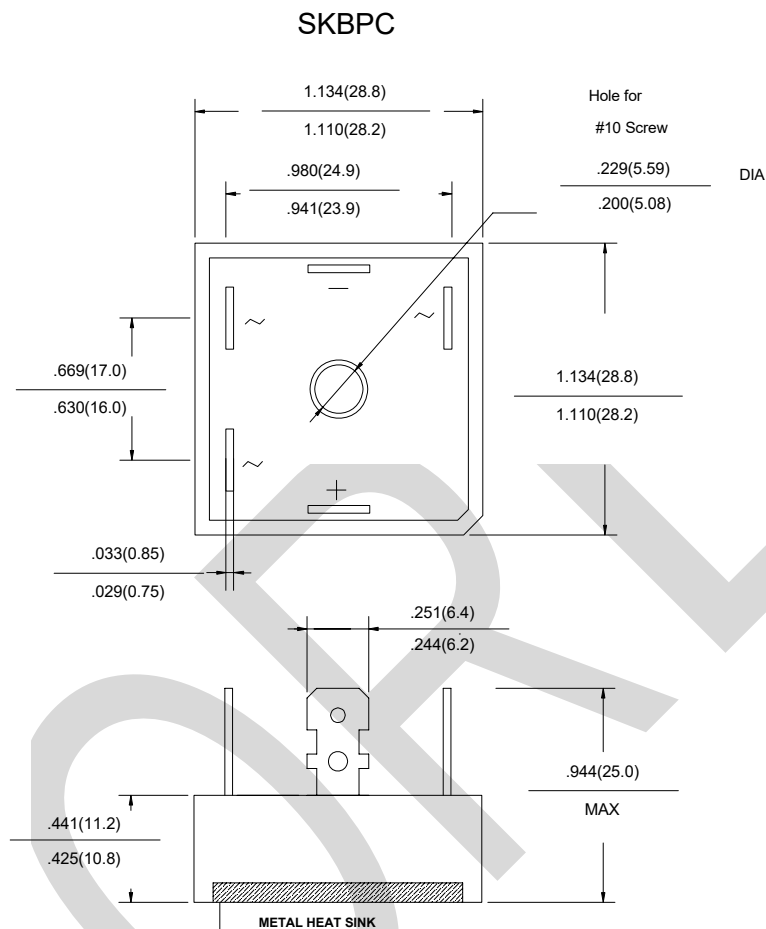


FIG4: Typical Reverse Characteristics



PACKAGE OUTLINE DIMENSIONS

Note:unit mm



Dimensions for inches and (millimeters)

Description of model and identification

SKBPC	25	12
Package type	Current	Voltage
	25=25A	12=1200V 14=1400V 16=1600V