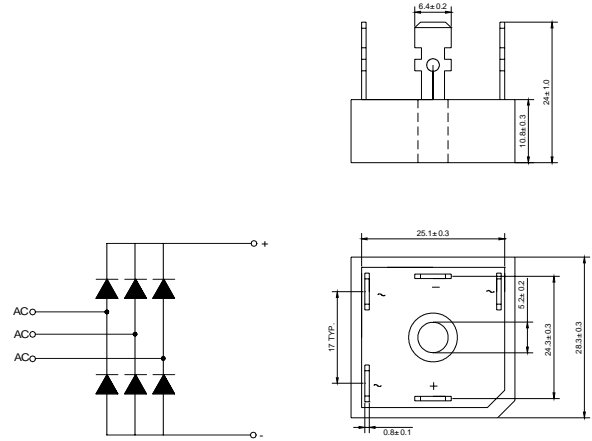




### Features

- ◇ Rating to 1600 V PRV
- ◇ Surge overload rating to 550 Amperes peak
- ◇ Ideal for printed circuit board
- ◇ Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- ◇ Lead solderable per MIL-STD-202 method 208
- ◇ High case dielectric strength of 2200 V<sub>RMS</sub>

### SGBPC



Dimensions in millimeters

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

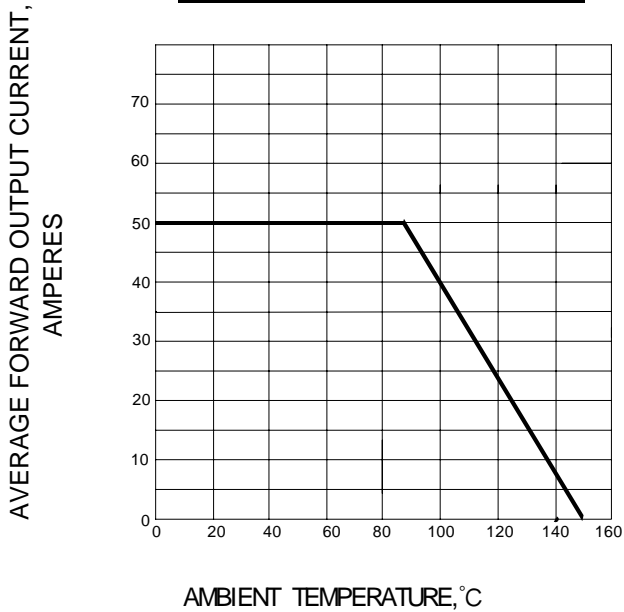
Ratings at 25°C ambient temperature unless otherwise specified.

		SGBPC 50005	SGBPC 5001	SGBPC 5002	SGBPC 5004	SGBPC 5006	SGBPC 5008	SGBPC 5010	SGBPC 5012	SGBPC 5014	SGBPC 5016	UNITS
Maximum recurrent peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	1200	1400	1600	V
Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	560	700	840	980	1120	V
Maximum DC blocking voltage	$V_{DC}$	50	100	200	400	600	800	1000	1200	1400	1600	V
Maximum average forward Output current @ $T_A=25^\circ C$	$I_{F(AV)}$	50.0										A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	$I_{FSM}$	550.0										A
Maximum instantaneous forward voltage @ 25.0 A	$V_F$	1.19										V
Maximum reverse current @ $T_A=25^\circ C$ at rated DC blocking voltage @ $T_A=100^\circ C$	$I_R$	10.0 5.0										$\mu A$ mA
Thermal resistance junction to case at DC Operation per bridge	$R_{\theta JC}$	1.16										K/W
Thermal resistance case to heatsink mounting surface, smooth, flat and gread	$R_{\theta CS}$	0.2										K/W
Operating junction temperature range	$T_J$	- 40 ---- + 150										$^\circ C$
Storage temperature range	$T_{STG}$	- 40 ---- + 150										$^\circ C$

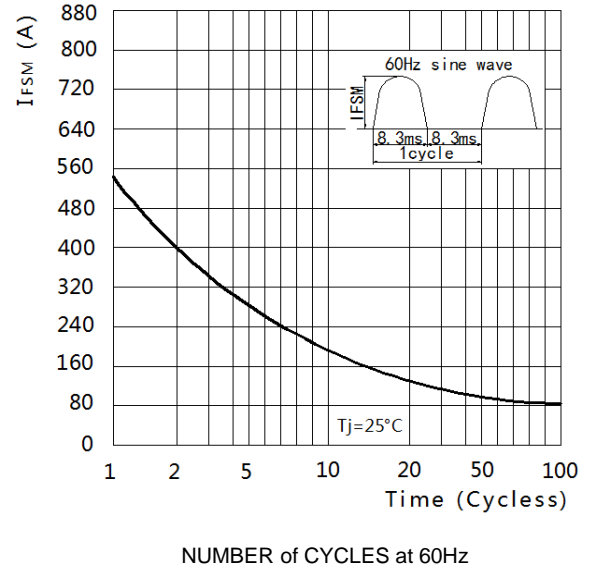


### Ratings AND Characteristic Curves

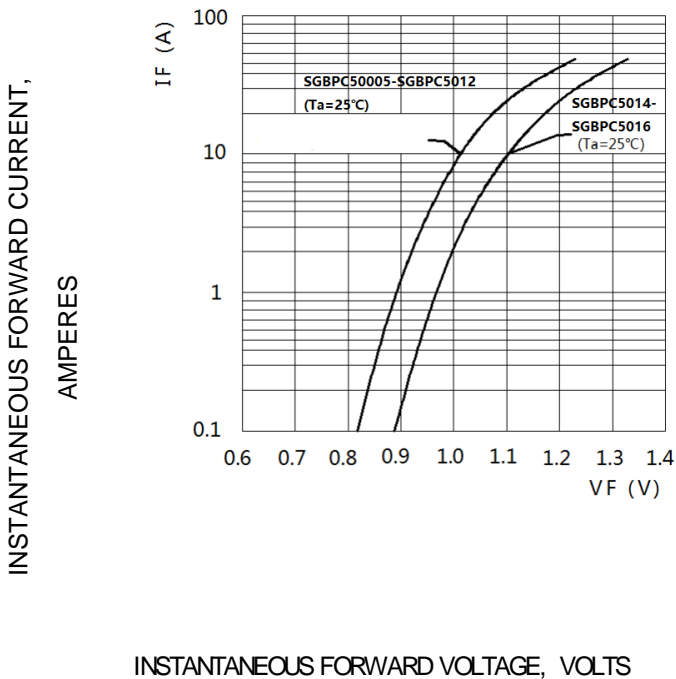
**FIG.1 -- FORWARD DERATING CURVE**



**FIG.2 --MAXIMUM NON-REPETITIVE SURGE CURRENT**



**FIG.3 -- TYPICAL FORWARD CHARACTERISTIC**



**FIG.4-- TYPICAL REVERSE CHARACTERISTIC**

