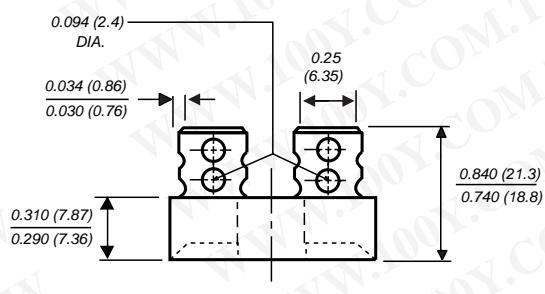


Case GBPC



Dimensions in inches and (millimeters)

SMSC Catalog Number	Maximum Repetitive Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GBPC5002	200V	140V	200V
GBPC5004	400V	280V	400V
GBPC5006	600V	420V	600V
GBPC5008	800V	560V	800V
GBPC5010	1000V	700V	1000V

## Maximum Ratings and Thermal Characteristics

## Mechanical Data

**Case:** Epoxy case with heatsink internally

**Terminals:** Plated leads solderable per MIL-STD-750, Method 2026

**Polarity:** Marked on Body

**Mounting Position:** Any

**Weight:** 0.53 oz, 15 gms

Maximum average forward output rectified current $T_c = 55^{\circ}\text{C}$	$I_{F(AV)}$	50	A
Peak forward surge current single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	400	A
Rating for fusing ( $t < 8.3\text{ms}$ )	$I^2t$	800	$\text{A}^2\text{sec}$
Maximum thermal resistance per leg <sup>(1)</sup>	$R_{\theta JC}$	1.4	$^{\circ}\text{C}/\text{W}$
Operating Junction and storage temperature range	$T_j, T_{STG}$	-55 to +150	$^{\circ}\text{C}$

## Electrical Characteristics

Maximum Instantaneous Forward Voltage per leg	$V_F$	1.1V	$I_{FM} = 25\text{A}$
Maximum DC reverse current at rated DC blocking voltage per leg	$I_R$	$5.0\mu\text{A}$ $500\mu\text{A}$	$T_A = 25^{\circ}\text{C}$ $T_A = 125^{\circ}\text{C}$

Notes: (1) Unit case mounted on Al plate heatsink

