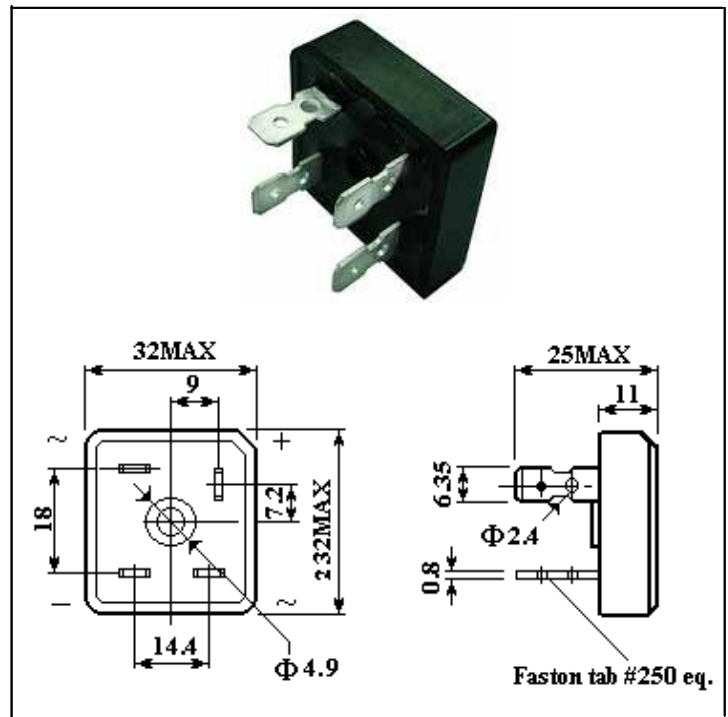


## S25VB10 Thru S25VB100

### High Current Glass Passivated Single-Phase Bridge Rectifier

#### FEATURES

- Plastic Package has Underwriters Laboratory Flammability Classification 94V-0
- High current capacity with small package
- Glass passivated chip junctions
- Superior thermal conductivity
- High IFSM



Maximum Ratings & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Item	Symbol	S25VB10	S25VB20	S25VB40	S25VB60	S25VB80	S25VB100	Unit
Maximum repetitive voltage	$V_{RM}$	100	200	400	600	800	1000	V
Maximum DC reverse current $T_A=25^\circ\text{C}$ at rated DC blocking voltage $T_A=125^\circ\text{C}$	$I_R$				10 500			$\mu\text{A}$
Average rectified forward current 60Hz sine wave, R-load with heatsink $T_c=100^\circ\text{C}$	$I_o$				25			A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	$I_{FSM}$				300			A
Dielectric strength Terminals to case, AC 1 minute Current 1mA	$V_{dia}$				2			KV
Max instantaneous forward voltage at 12.5A	$V_F$				1.1			V
Operating junction temperature	$T_j$				125			$^\circ\text{C}$
Storage temperature	$T_{stg}$				-40~150			$^\circ\text{C}$