

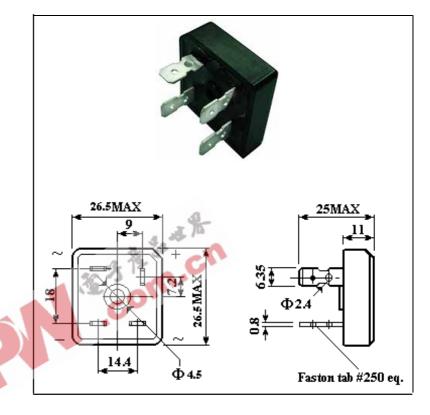
S15VB10 Thru S15VB100

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



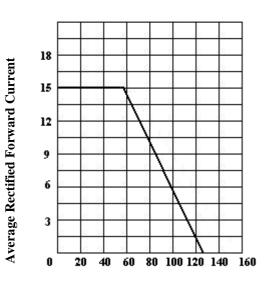
Maximum Ratings & Thermal Characteristics Ratings at 25 ambient temperature unless otherwise specified.

Item	Symbol	S15VB10	S15VB20	S15VB40	S15VB60	S15VB80	S15VB100	Unit
Maximum repetitive voltage	V_{RM}	100	200	400	600	800	1000	V
Maximum DC reverse current TA=25	Ir	10 500						μΑ
at rated DC blocking voltage TA=125	IR							
Average recified forward current 60Hz sine	Io	15						A
wave,R-load with heatsink Tc=100	10							
Peak forward surge current 8.3 ms single half	Ifsm		200					A
sine-wave superimposed on rated load	IFSM	200						Λ
Dielectric strength Terminals to case,	Vdia	2					KV	
AC 1 minute Current 1mA	v uia	Σ						
Max instantaneous forward voltage at 7.5A	V_{F}	1.1						V
Operating junction temperature	Tj	125						
Storage temperature	Tstg				-40~150			



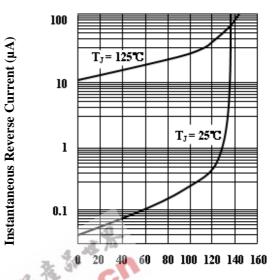
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Fig.1 Derating Curve



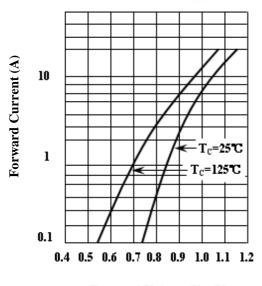
Case Temperature Tc ()

Fig.2 Typical Reverse Characteristics



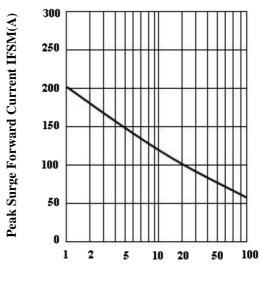
Percent of Rated Peak Reverse Voltage %

Fig.3 Forward Voltage



Forward Voltage VF (V)

Fig.4 Peak Surge Forward Capability



Number of Cycles (cycles)