



**S5AB-S5MB**

**Feature**

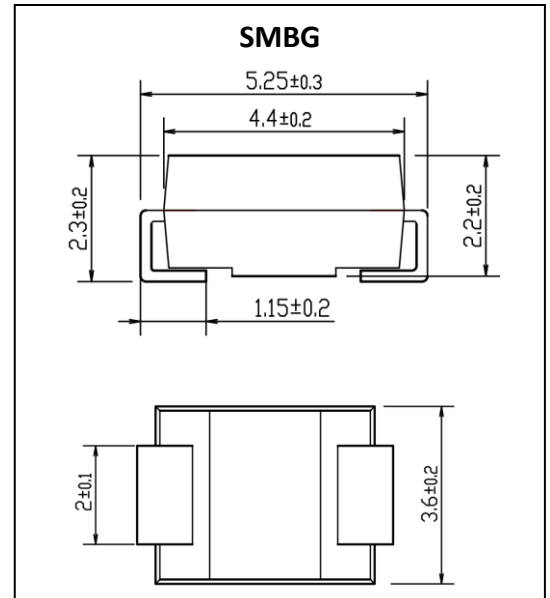
- Low Profile Package
- Ideal For Automated Placement
- Glass Passivated Chip
- High Forward Surge Capability

**Application**

- Rectifier

**Marking**

- S5XB X: From A to M



**ABSOLUTE MAXIMUM RATINGS (T<sub>A</sub>=25°C unless otherwise noted)**

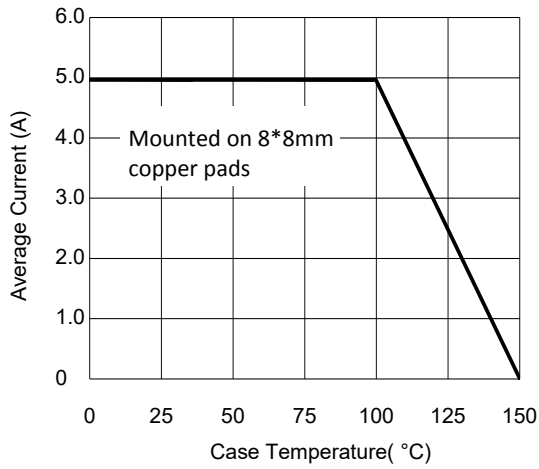
Parameter	Symbol	S5XB							Unit
		A	B	D	G	J	K	M	
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Average Forward Current	I <sub>F(AV)</sub>	5							A
Non-repetitive Peak Forward Surge Current 8.3ms Single Half-Sine-Wave @T <sub>J</sub> =25°C	I <sub>FSM</sub>	150							A
Rating For Fusing(t<8.3ms)	I <sup>2</sup> t	93.4							A <sup>2</sup> sec
Junction Temperature	T <sub>J</sub>	-55 ~ +150							°C
Storage Temperature	T <sub>STG</sub>	-55 ~ +150							°C

**ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C unless otherwise noted)**

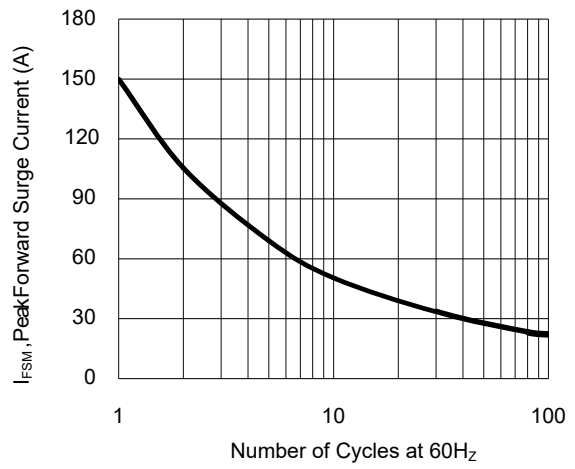
Parameter	Symbol	Test Condition	S5XB							Unit
			A	B	D	G	J	K	M	
Peak Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =5A	1.1							V
Peak Reverse Current	I <sub>RRM1</sub>	V <sub>RM</sub> =V <sub>RRM</sub>	T <sub>A</sub> =25°C		10					uA
	I <sub>RRM2</sub>		T <sub>A</sub> =125°C		250					uA
Thermal Resistance(Typical)	R <sub>θJ-A</sub>		60							°C/W
	R <sub>θJ-L</sub>		25							°C/W
	R <sub>θJ-C</sub>		23							°C/W

**Typical Characteristics**

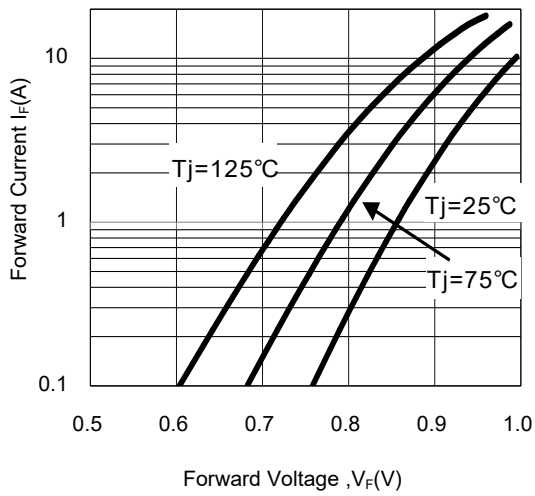
**Fig.1-Forward Current Derating Curve**



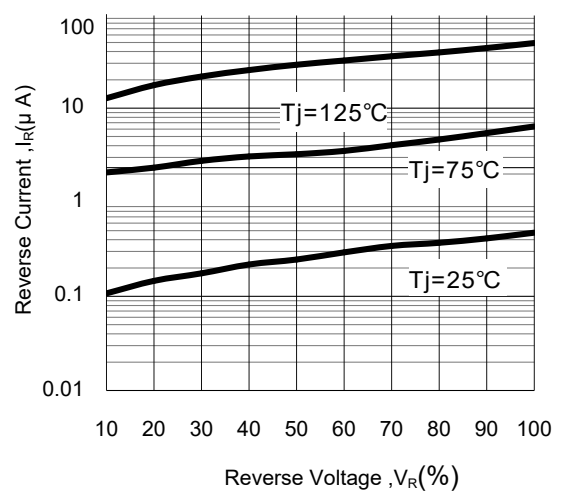
**Fig.2- Surge Current Derating Curve**



**Fig.3- Typical Forward Voltage Characteristic**



**Fig.4- Typical Reverse Characteristic**



**Attention:**

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