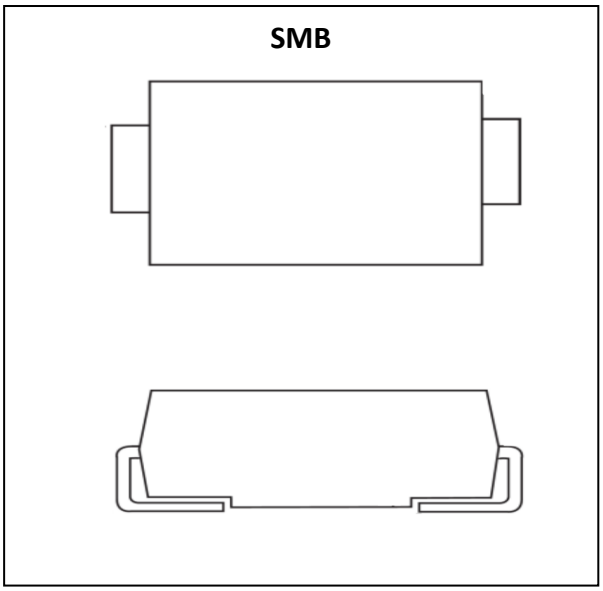
SS32BY-SS320BY

20~200V-3A Schottky Rectifier

SS32BY-SS320BY Schottky Rectifier



Feature

- Low profile package
- Low power losses, high efficiency
- High forward surge capability

Application

- Rectifier

Marking

- SS3XB
  X: From 2 To 20

ABSOLUTE MAXIMUM RATINGS (T_A=25℃ unless otherwise noted)

Parameter	Symbol	SS3							Unit
		2BY	4BY	6BY	8BY	10BY	15BY	20BY	
Repetitive Peak Reverse Voltage	V_{RRM}	20	40	60	80	100	150	200	V
Maximum RMS Voltage	V_{RMS}	14	28	42	56	70	105	140	V
Maximum Average Forward Output Current	$I_{F(AV)}$	3.0							A
Non-repetitive Peak Forward Surge Current,8.3ms Single Half-sinewave. T_j =25℃	I_{FSM}	80							A
Junction Temperature	T_J	-55 ~ +125				-55 ~ +150			℃
Storage Temperature	T_{STG}	-55 ~ +150							℃

ELECTRICAL CHARACTERISTICS (T_A=25℃ unless otherwise noted)

Parameter	Symbol	Test Condition		SS3							Unit
				2BY	4BY	6BY	8BY	10BY	15BY	20BY	
Peak Forwar Voltaged	V_F	I_F =3A		0.55		0.70	0.85		0.90		V
Peak Reverse Current	I_{RRM1}	V_{RM}=V_{RRM}	T_A=25℃	0.5			0.1				mA
	I_{RRM2}		T_A=100℃	20			5				mA
Typical Thermal Resistance[1]	$R_{\theta J-A}$	Between junction and ambient		55							℃/W
	$R_{\theta J-L}$	Between junction and terminal		20							℃/W

Notes : Units mounted on P.C.B. with 5.0X5.0 mm land areas

Typical Characteristics

Fig.1-Forward Current Derating Curve

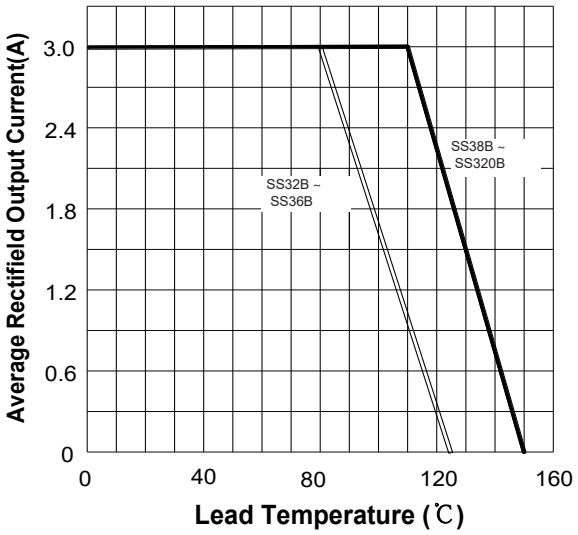


Fig.2- Surge Current Derating Curve

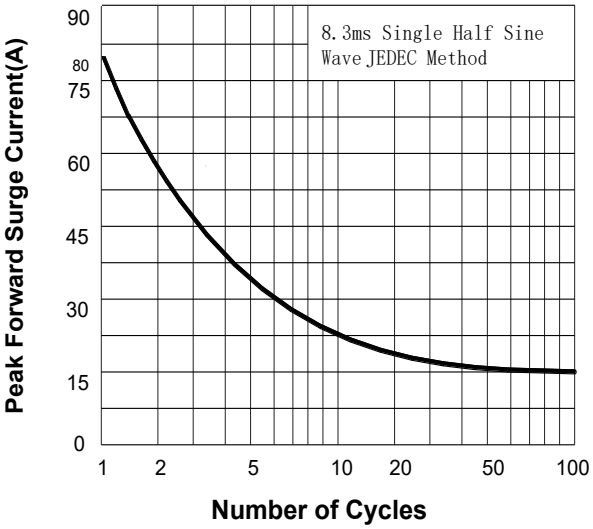


Fig.3- Typical Forward Voltage Characteristic

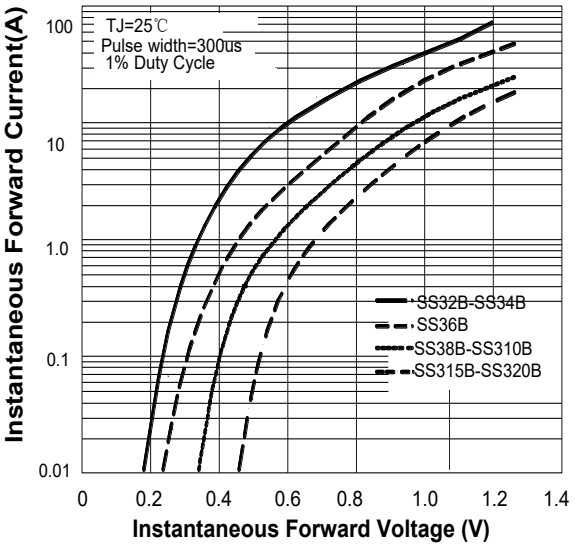
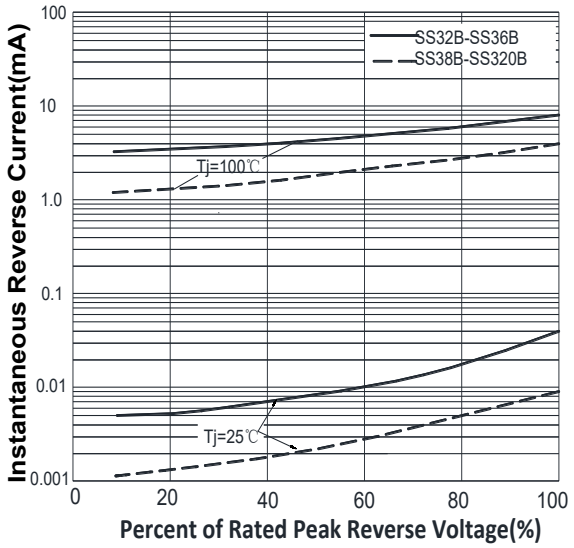
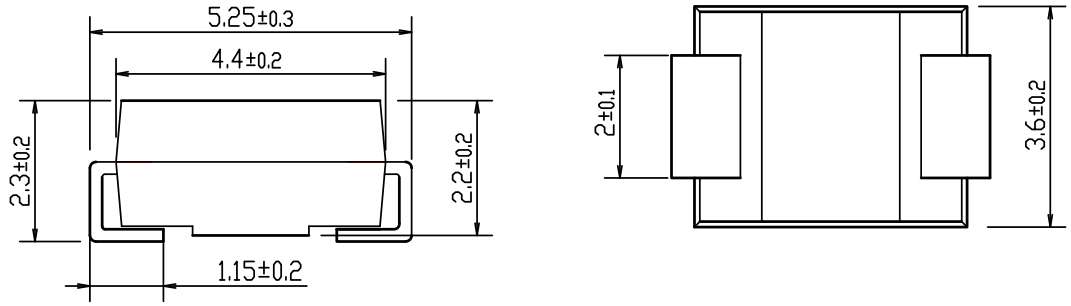


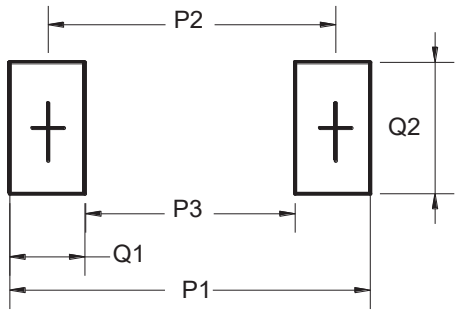
Fig.4- Typical Reverse Characteristic



SMB Package Outline Dimensions



Mounting Pad Layout(unit:mm)



Dim	Millimeters
P1	6.80
P2	4.30
P3	1.80
Q1	2.50
Q2	2.30

Attention：

- GreenPower Electronics reserves the right to improve product design function and reliability without notice.
- Any and all semiconductor products have certain probability to fail or malfunction, which may result in personal injury, death or property damage. Customer are solely responsible for providing adequate safe measures when design their systems.
- GreenPower Electronics products belong to consumer electronics or other civilian electronic products.