



SS52A-SS520A Schottky Rectifier

Feature

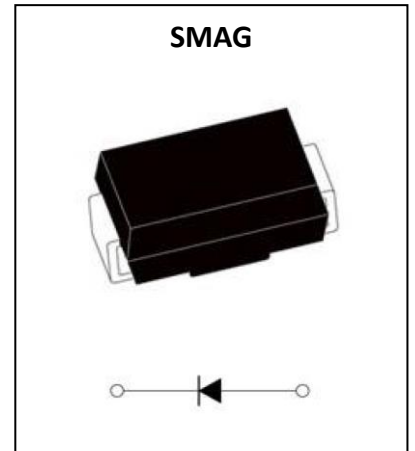
- High current capability
- Low VF
- High surge current capability

Application

- Rectifier

Marking

- SS5X
X: From 2 To 20



ABSOLUTE MAXIMUM RATINGS ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	SS5									Unit
		2	3	4	5	6	8	10	15	20	
Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	150	200	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	70	105	140	V
Average Forward Current (60HZ Half-sine wave, Resistance load, TL(Fig.1))	$I_{F(AV)}$	5.0									A
Non-repetitive Peak Forward Surge Current (60Hz Half-sine wave, 1 cycle, $T_a=25^{\circ}\text{C}$)	I_{FSM}	120									A
Junction Temperature	T_J	-55 ~ +125			-55 ~ +150						$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-55 ~ +150									$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Test Condition	SS5								Unit
			2	3	4	5	6	8	10	15	
Peak Forward Voltage	V_F	$I_F=5\text{A}$	0.55		0.70		0.85		0.95		V
Peak Reverse Current	I_{RRM1}	$V_{RM}=V_{RR}$	$T_a=25^{\circ}\text{C}$		1.0						mA
	I_{RRM2}	M	$T_a=100^{\circ}\text{C}$		50						mA
Typical Thermal Resistance	$R_{\theta J-A}$		55								$^{\circ}\text{C}/\text{W}$

Note:

Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.20" x 0.20" (5.0 mm x 5.0 mm) copper pad areas.

Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

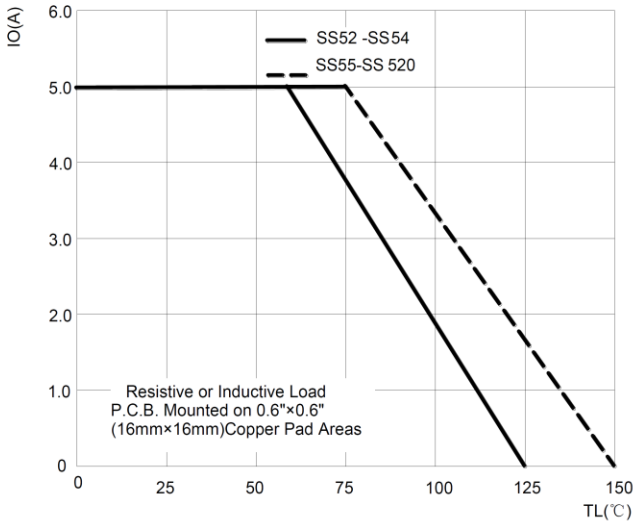


FIG.2: MAXIMUM NON-REPETITIVE FORWARD URGE CURRENT

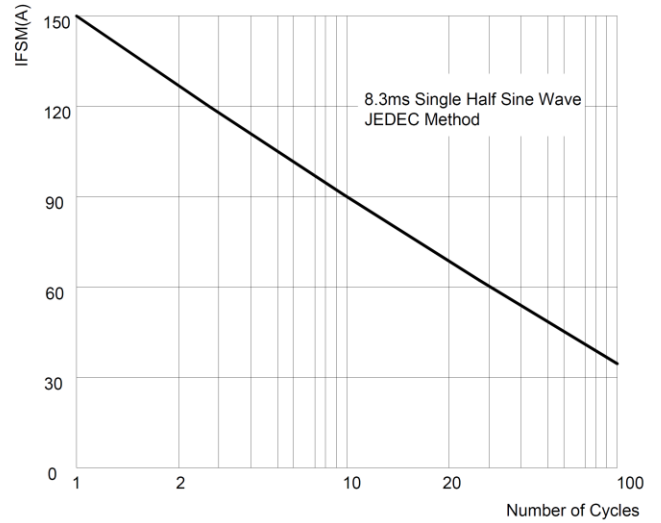


FIG.3: TYPICAL FORWARD CHARACTERISTICS

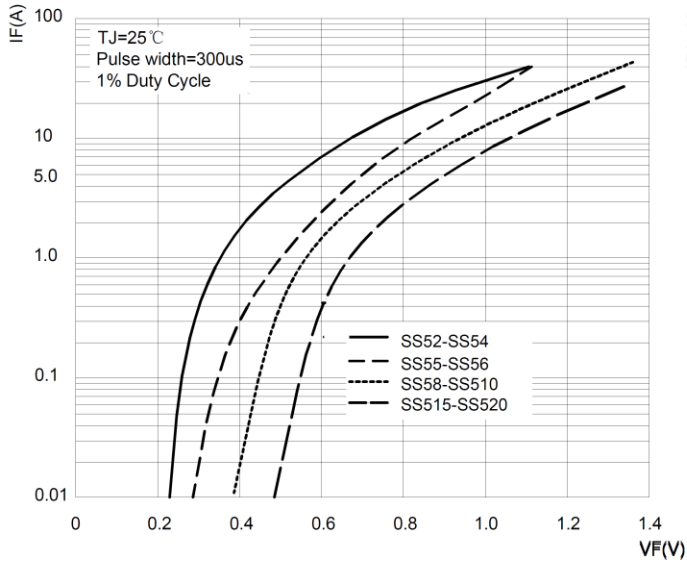
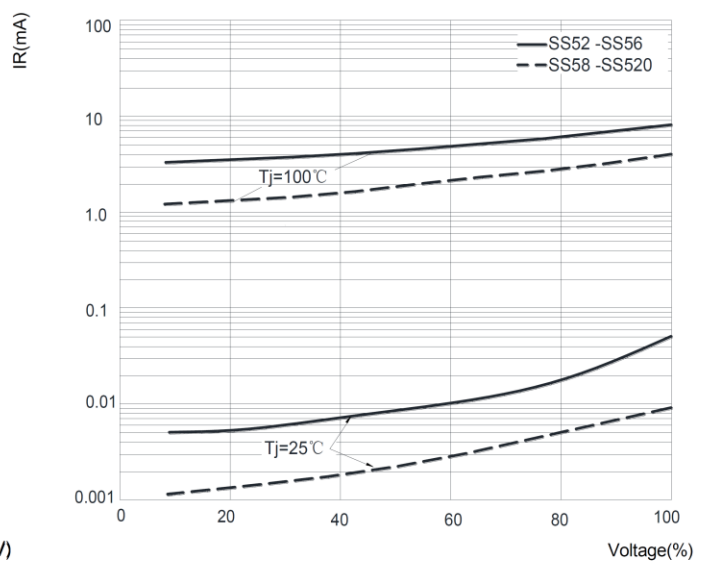
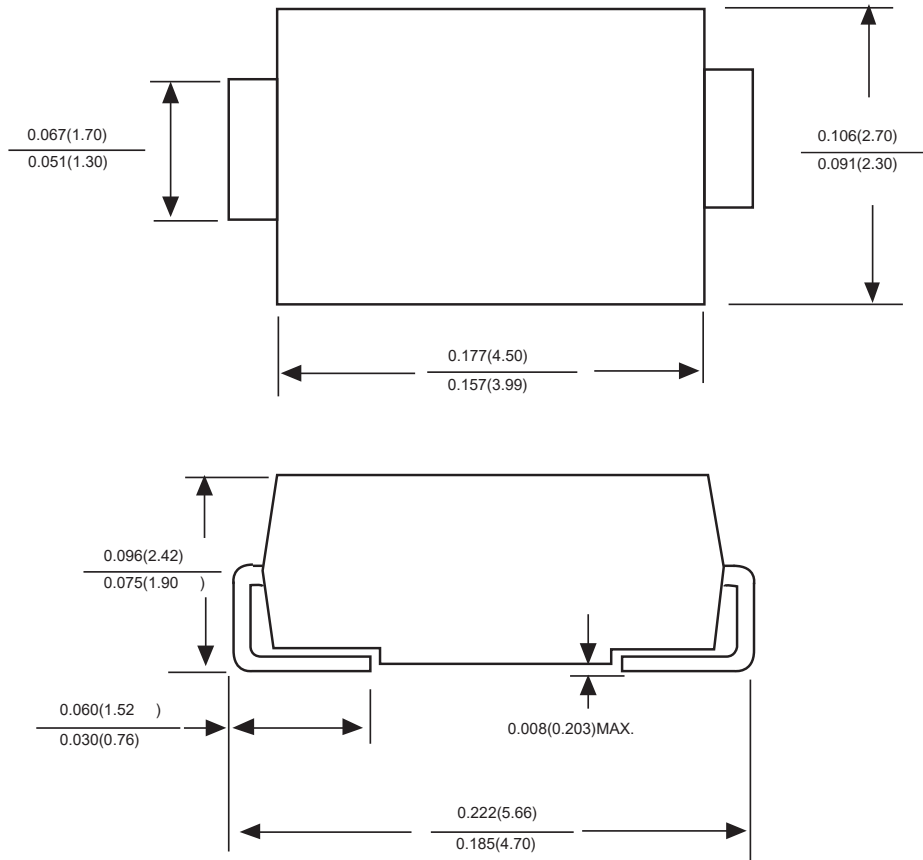


FIG.4: TYPICAL REVERSE CHARACTERISTICS



SMAG Package Outline Dimensions



Dimensions in inches and (millimeters)

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