SS52A-SS520A

20~200V-5A Schottky Rectifier

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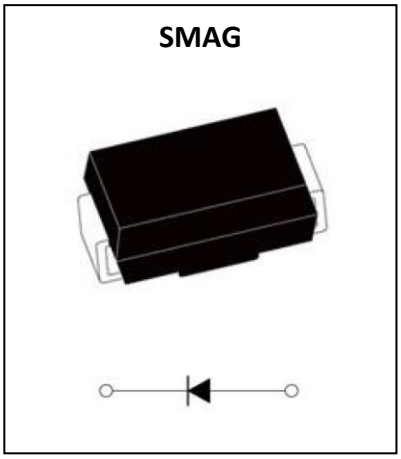


Feature

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

Application

- Rectifier

Marking

- SS5X
  X: From 2 To 20

ABSOLUTE MAXIMUM RATINGS (T_a=25℃ 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 ,Ta =25℃)	I_{FSM}	150									A
Junction Temperature	T_J	-65 ~ +125			-65 ~ +150						℃
Storage Temperature	T_{STG}	-65 ~ +150									℃

ELECTRICAL CHARACTERISTICS (T_a=25℃ unless otherwise noted)

Parameter	Symbol	Test Condition		SS5									Unit
				2	3	4	5	6	8	10	15	20	
Peak Forward Voltage	V_F	I_F =1A		0.55			0.70		0.85		0.95		V
Peak Reverse Current	I_{RRM1}	V_{RM}=V_{RRM}	T_a=25℃	0.5					0.1				mA
	I_{RRM2}		T_a=100℃	10					5.0				mA
Thermal Resistance(Typical)	$R_{\theta J-A}$	Between junction and ambient		55									℃/W
	$R_{\theta J-L}$	Between junction and terminal		17									℃/W

Notes:

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

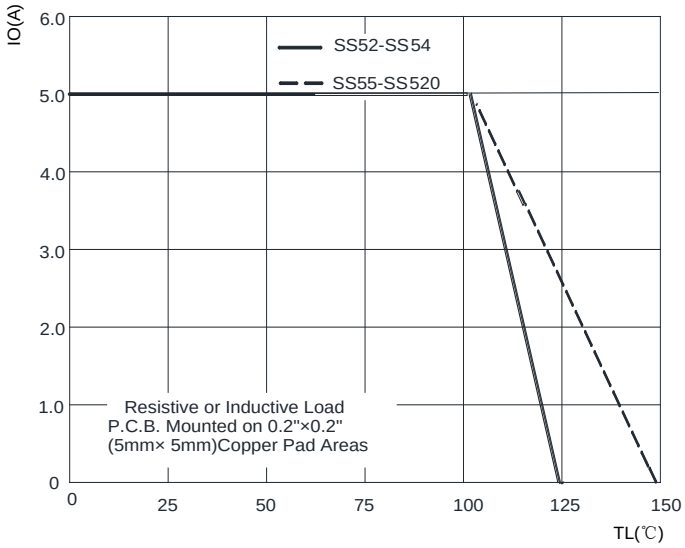


FIG.2: MAXIMUM NON-REPETITIVE FORWARD URGE CURRENT

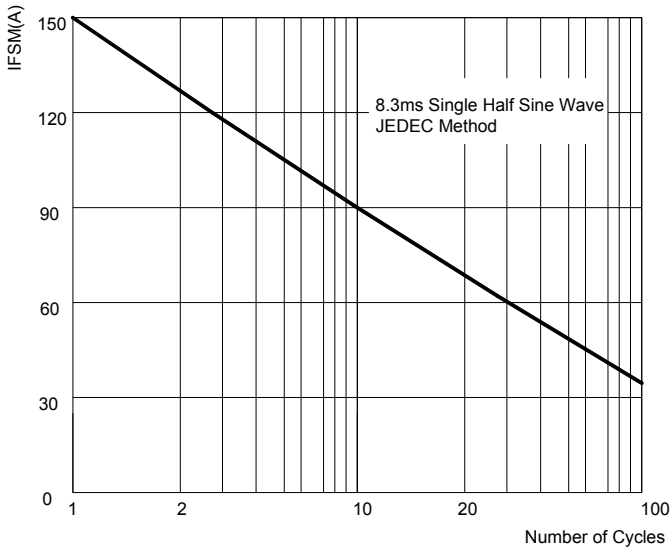


FIG.3: TYPICAL FORWARD CHARACTERISTICS

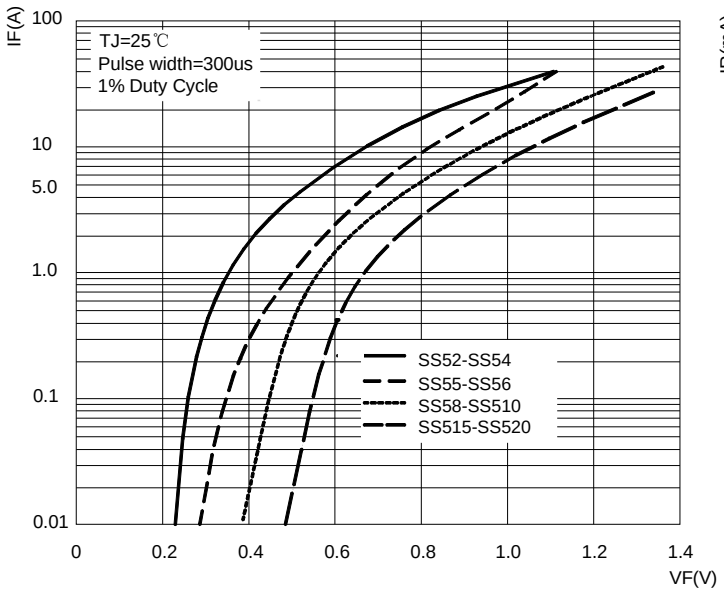
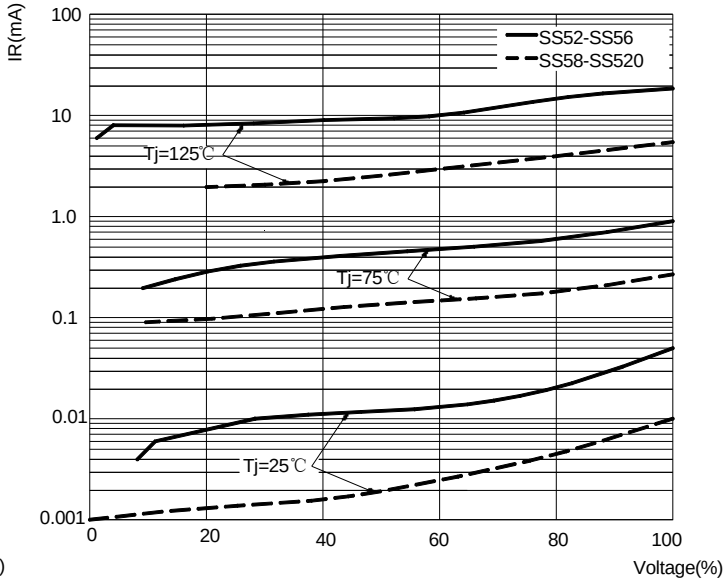
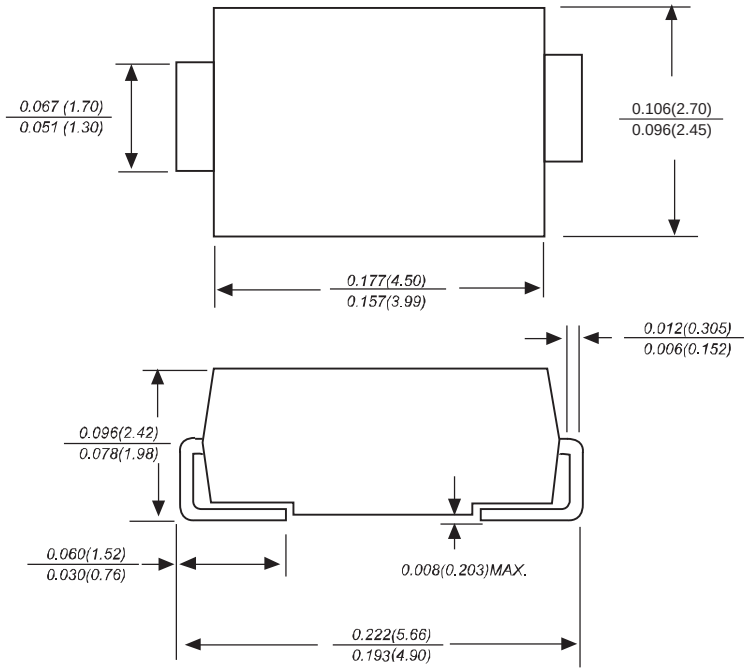


FIG.4：TYPICAL REVERSE CHARACTERISTICS

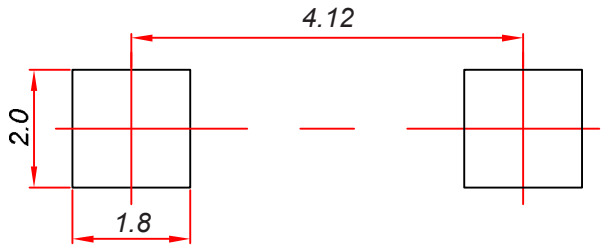


SMAG Package Outline Dimensions



Dimensions in inches and (millimeters)

SMAG Suggested Pad Layout



Note:
1.Controlling dimension:in millimeters.
2.General tolerance:± 0.05mm.
3.The pad layout is for reference purposes only.