



SS52C-SS520C Schottky Rectifier

Feature

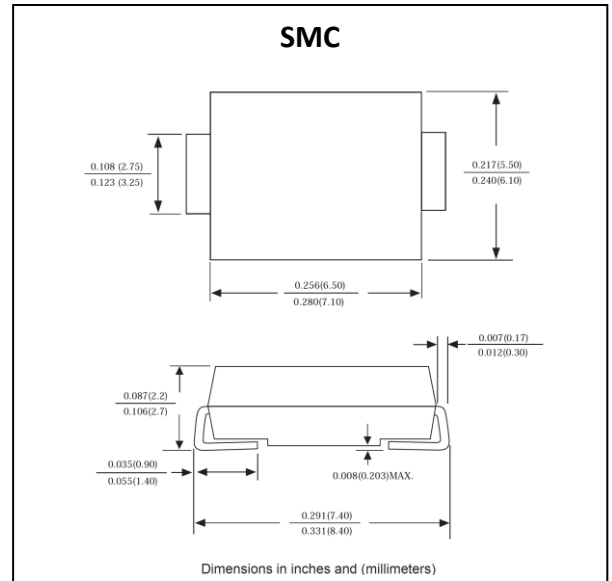
- High current capability
- Low VF
- High surge current capability

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}	150									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	$I_F = 1\text{A}$	0.55		0.70		0.85		0.95		V
Peak Reverse Current	I_{RRM1}	$V_{RM} = V_{RRM}$	$T_a = 25^\circ\text{C}$			0.5		0.2			mA
	I_{RRM2}		$T_a = 100^\circ\text{C}$			20		10			mA
Thermal Resistance(Typical)	$R_{\theta J-A}$	Between junction and ambient	47							$^\circ\text{C/W}$	
	$R_{\theta J-L}$	Between junction and terminal	13							$^\circ\text{C/W}$	

Notes:

Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.60" x 0.60" (16.0 mm x 16.0 mm) copper pad areas

Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

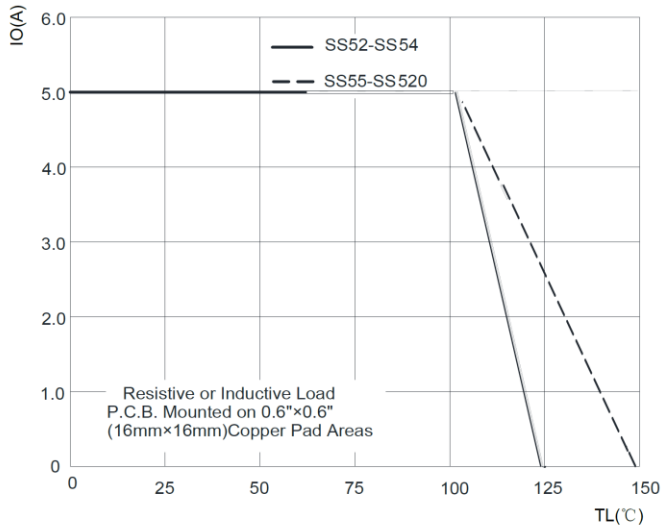


FIG.2: MAXIMUM NON-REPETITIVE FORWARD URGE CURRENT

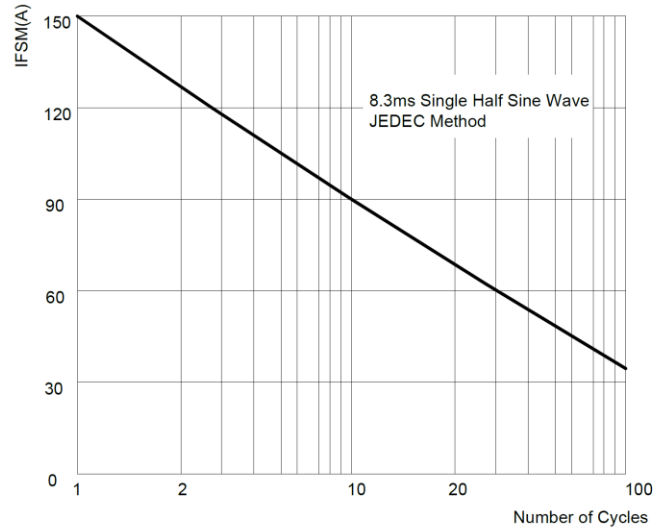


FIG.3: TYPICAL FORWARD CHARACTERISTICS

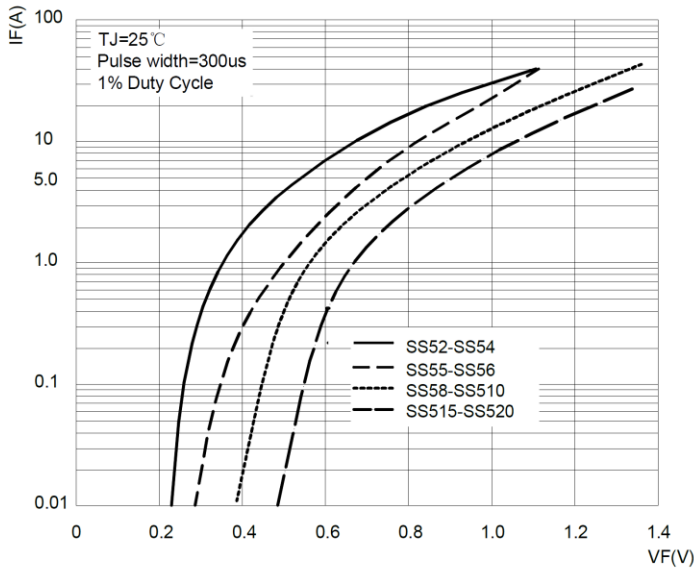


FIG.4: TYPICAL REVERSE CHARACTERISTICS

