



SS102C-SS1020C Schottky Rectifier

Feature

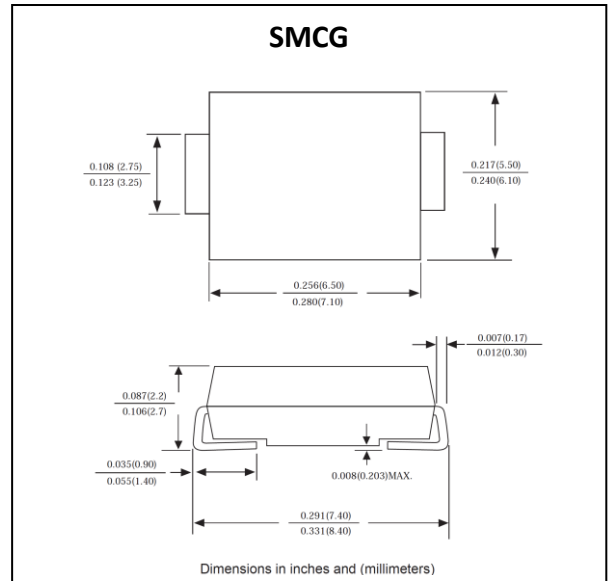
- High current capability
- Low VF
- High surge current capability

Application

- Rectifier

Marking

- SS10X
X: From 2 To 20



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

Parameter	Symbol	SS10									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))	$I_{F(AV)}$	10									A
Non-repetitive Peak Forward Surge Current (60Hz Half-sine wave, 1 cycle, $T_a=25^\circ\text{C}$)	I_{FSM}	250									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	SS10							Unit	
			2	3	4	5	6	8	10		15
Peak Forward Voltage	V_F	$I_F=10\text{A}$	0.65		0.75		0.85		0.95		V
Peak Reverse Current	I_{RRM1}	$V_{RM}=V_{RRM}$	$T_a=25^\circ\text{C}$		0.5		0.1				mA
	I_{RRM2}		$T_a=100^\circ\text{C}$		20		10				mA
Thermal Resistance(Typical)	$R_{\theta J-A}$	Between junction and ambient	50							$^\circ\text{C/W}$	
	$R_{\theta J-L}$	Between junction and terminal	15							$^\circ\text{C/W}$	
Typical Junction Capacitance	C_J	Measured at 1.0MHz and applied reverse voltage of 4.0 volts.	400							pF	

Notes:

Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.3" x 0.3" (8.0 mm x 8.0 mm) copper pad areas

Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

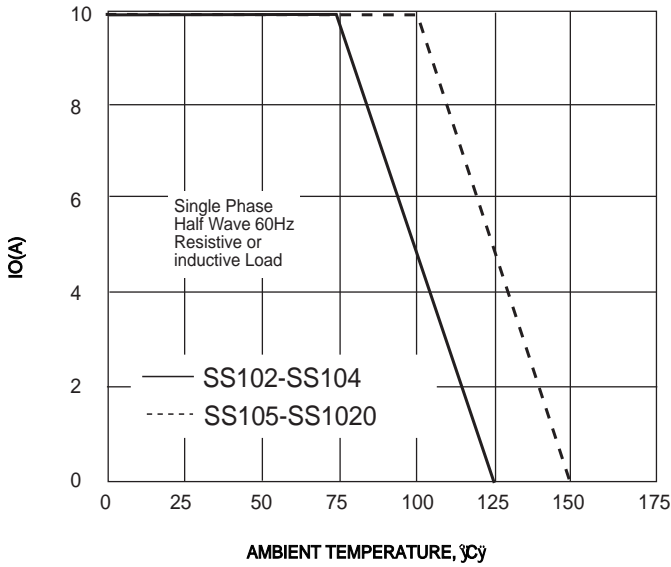


FIG.2: MAXIMUM NON-REPETITIVE FORWARD URGE CURRENT

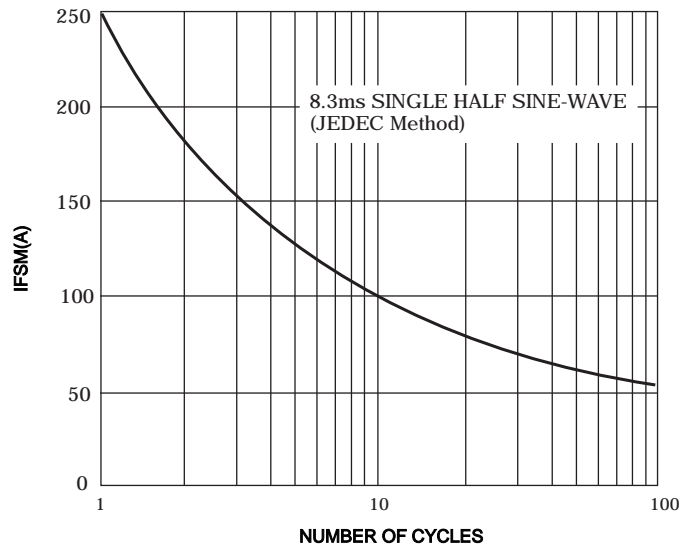


FIG.3: TYPICAL FORWARD CHARACTERISTICS

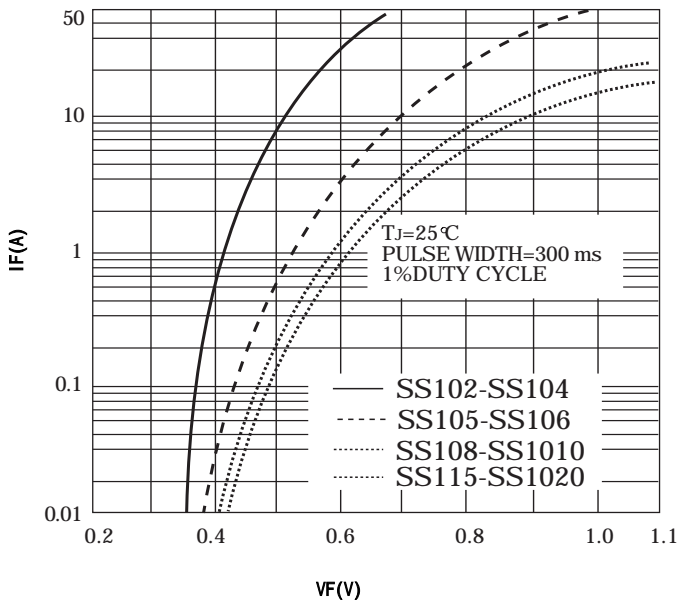


FIG.4 : TYPICAL REVERSE CHARACTERISTICS

