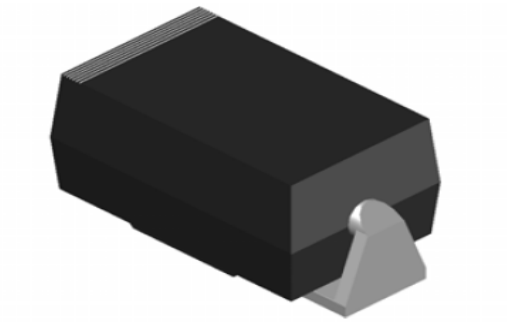
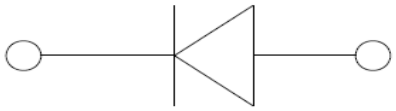
Surface Mount Schottky Rectifier





Features

- I_o 1.0A
- V_{RRM} 20V-100V
- High surge current capability
- Cases: Molded plastic

■Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Test Conditions	SS12	SS13	SS14	SS15	SS16	SS19	SS110
Repetitive Peak Reverse Voltage	V_{RRM}	V		20	30	40	50	60	90	100
Average Forward Current	$I_{F(AV)}$	A	60HZ Half-sine wave, Resistance load, Ta(Fig.1)	1.0						
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz Half-sine wave ,1 cycle , Ta =25℃	30						
Junction Temperature	T_J	℃		-55~+125			-55~+150			
Storage Temperature	T_{STG}	℃		-55 ~ +150						

Notes 1. Thermal resistance from junction to ambient mounted on P.C.B. with 5.0 mm x 5.0 mm copper heatsink

■Electrical Characteristics（T_a=25℃ Unless otherwise specified）

Item	Symbol	Unit	Test Conditions		SS12	SS13	SS14	SS15	SS16	SS19	SS110
Peak Forward Voltage	V_F	V	I_F=1.0A		0.55			0.70		0.85	
Peak Reverse Current	I_{RRM1}	mA	V_{RM}=V_{RRM}	T_a =25℃	0.5					0.1	
	I_{RRM2}			T_a =100℃	10			5.0		2.0	
Thermal Resistance(Typical)	$R_{\theta J-A}$	℃/W	Between junction and ambient		88[1)]						
	$R_{\theta J-L}$		Between junction and terminal		28[1)]						

Notes:
Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas

■Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SS12 THRU SS110	F1	Approximate 0.063	5000	10000	80000	13” reel

■ Characteristics(Typical)

FIG.1: FORWARD CURRENT DERATING CURVE

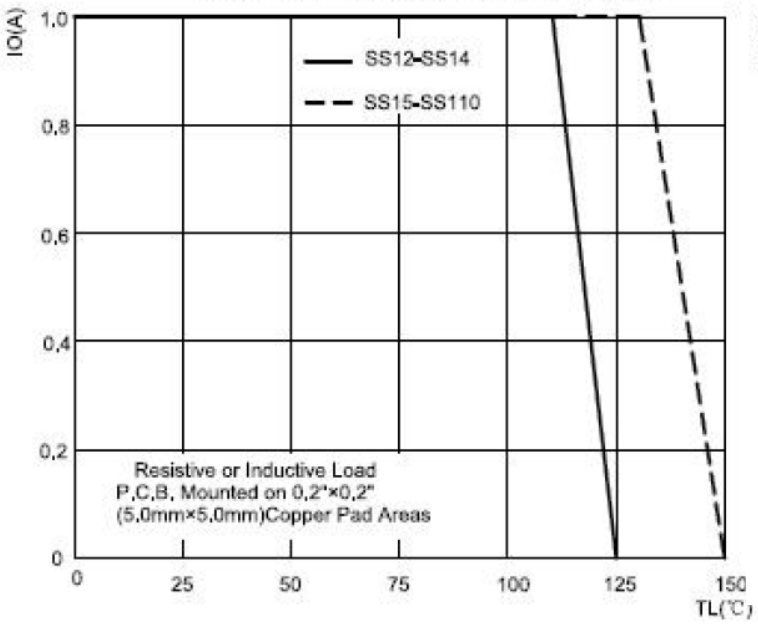


FIG.2: MAXIMUM NON-REPETITIVE FORWARD URGE CURRENT

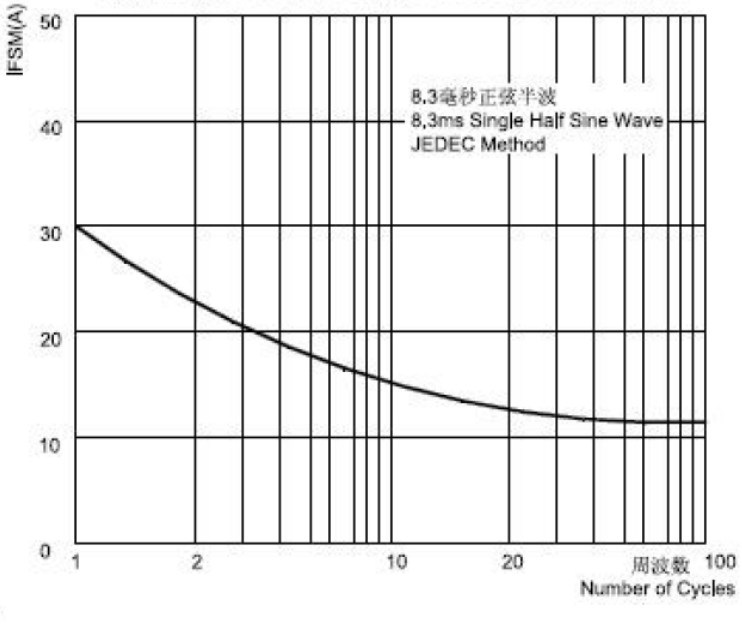


FIG.3: TYPICAL FORWARD CHARACTERISTICS

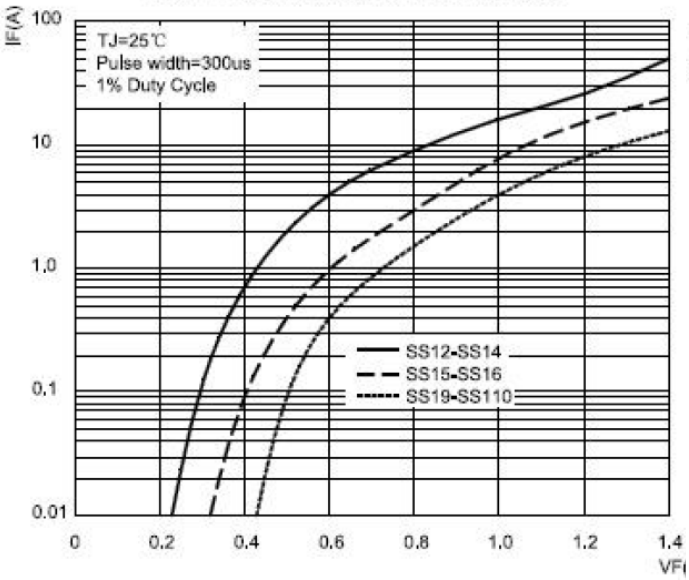
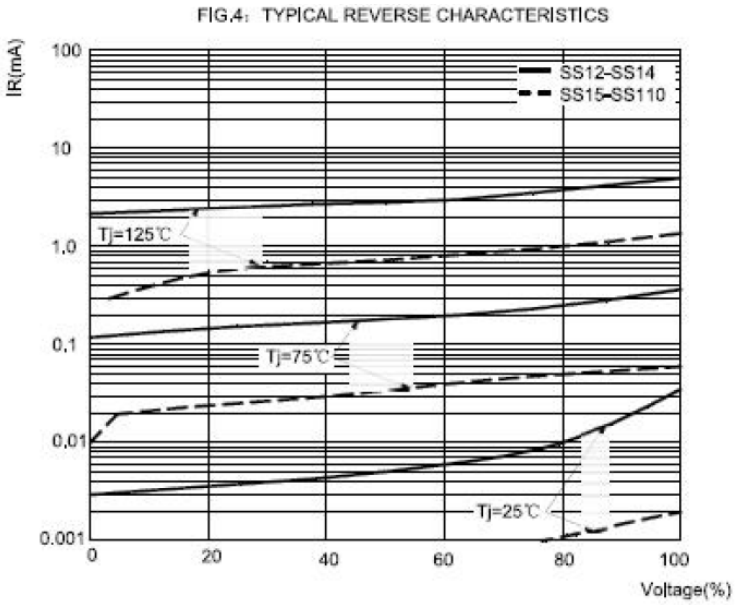
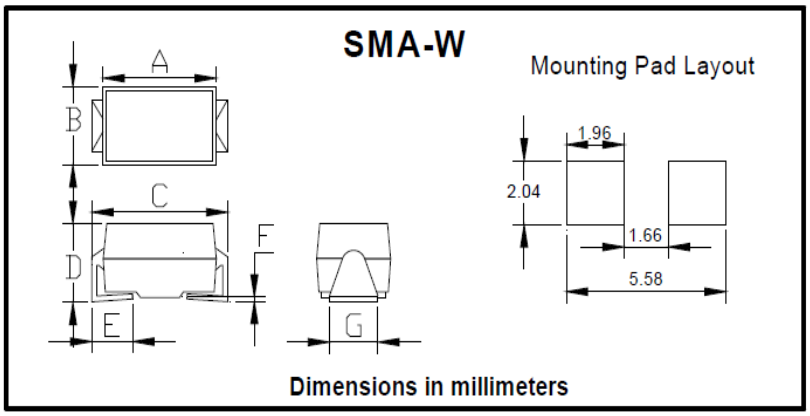


FIG.4: TYPICAL REVERSE CHARACTERISTICS



■ Outline Dimensions



SMA-W		
Dim	Min	Max
A	4.00	4.60
B	2.40	2.65
C	4.80	5.31
D	2.05	2.45
E	0.80	1.50
F	0.10	0.20
G	1.15	1.80

Notice

All products, product specifications and data are subject to change without notice to improve reliability, function or design or otherwise.
Information contained herein is intended to provide a product description only. No license, express or implied, to any intellectual property rights is granted by this document. Except as provided in STARSEA's terms and conditions of sale for such products, STARSEA assumes no liability whatsoever, and disclaims any express or implied warranty, relating to sale and/or use of STARSEA products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright, or other intellectual property right.