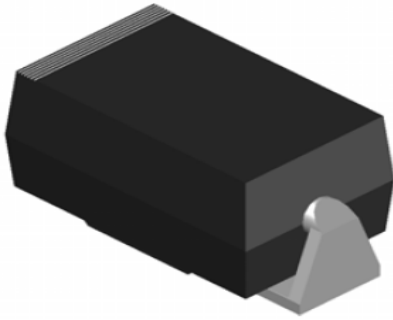
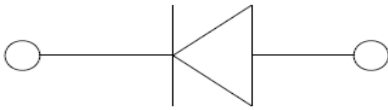


## Surface Mount Schottky Rectifier



### 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, $T_a$ (Fig.1)	1.0								
Surge(Non-repetitive)Forward Current	$I_{FSM}$	A	60Hz Half-sine wave ,1 cycle , $T_a=25^{\circ}C$	30								
Junction Temperature	$T_J$	$^{\circ}C$		-55~+125			-55~+150					
Storage Temperature	$T_{STG}$	$^{\circ}C$		-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



# SS12 THRU SS110

## ■ Electrical Characteristics (T<sub>a</sub>=25℃ unless otherwise specified)

Item	Symbol	Unit	Test Conditions	SS12	SS13	SS14	SS15	SS16	SS19	SS110
Peak Forward Voltage	V <sub>F</sub>	V	I <sub>F</sub> =1.0A	0.55			0.70		0.85	
Peak Reverse Current	I <sub>RRM1</sub>	mA	V <sub>RM</sub> =V <sub>RRM</sub>	T <sub>a</sub> =25℃		0.5				0.1
	I <sub>RRM2</sub>			T <sub>a</sub> =100℃		10		5.0		2.0
Thermal Resistance(Typical)	R <sub>θJ-A</sub>	℃/W	Between junction and ambient	88 <sup>1)</sup>						
	R <sub>θJ-L</sub>		Between junction and terminal	28 <sup>1)</sup>						

### 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)

PREFERRED 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

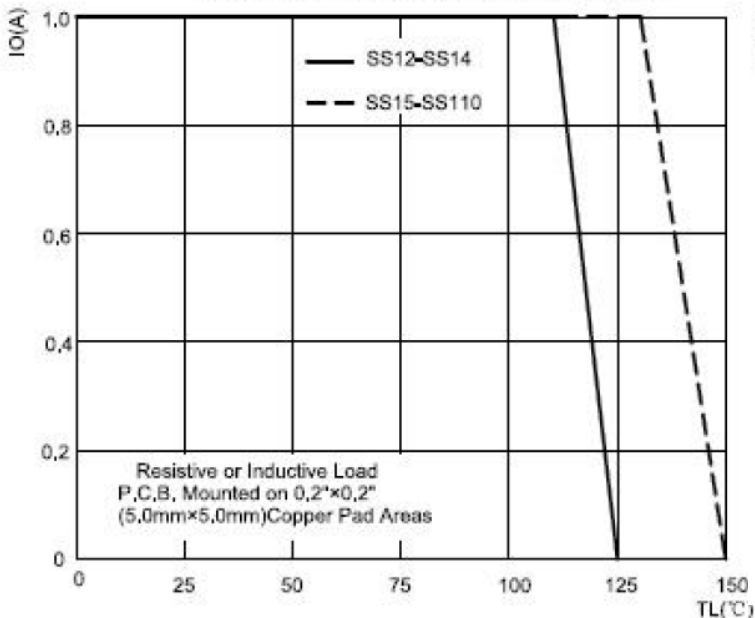


FIG.2: MAXIMUM NON-REPETITIVE FORWARD URGE CURRENT

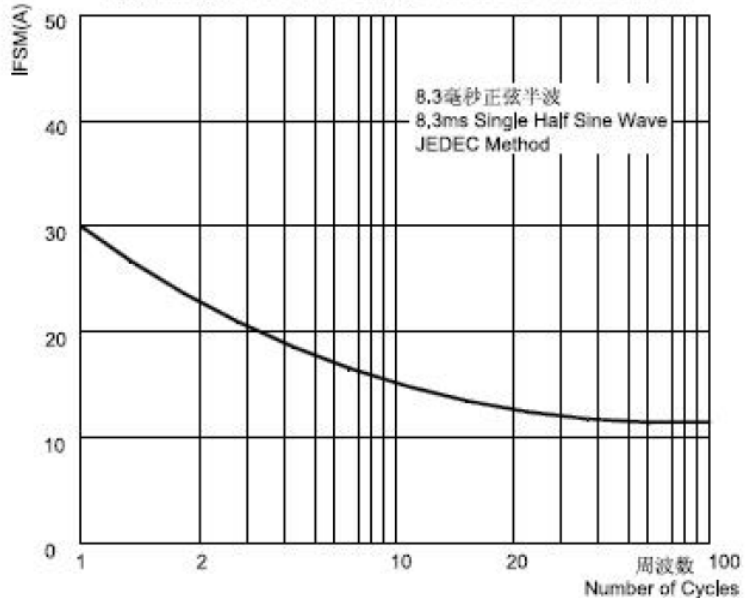


FIG.3: TYPICAL FORWARD CHARACTERISTICS

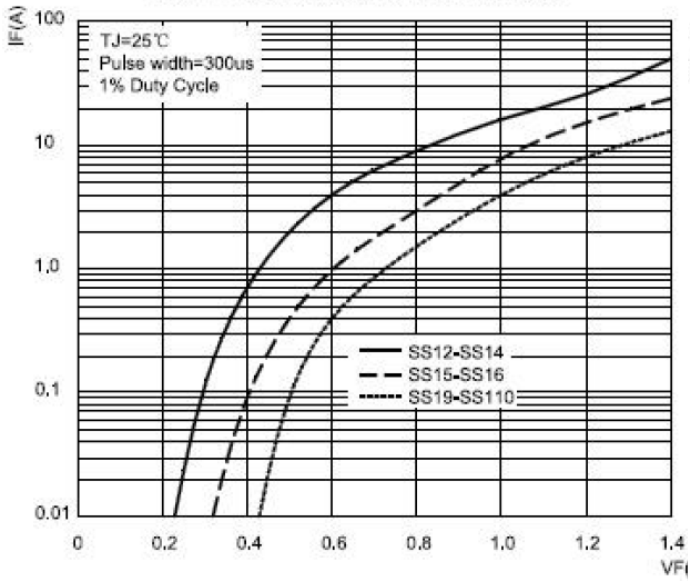
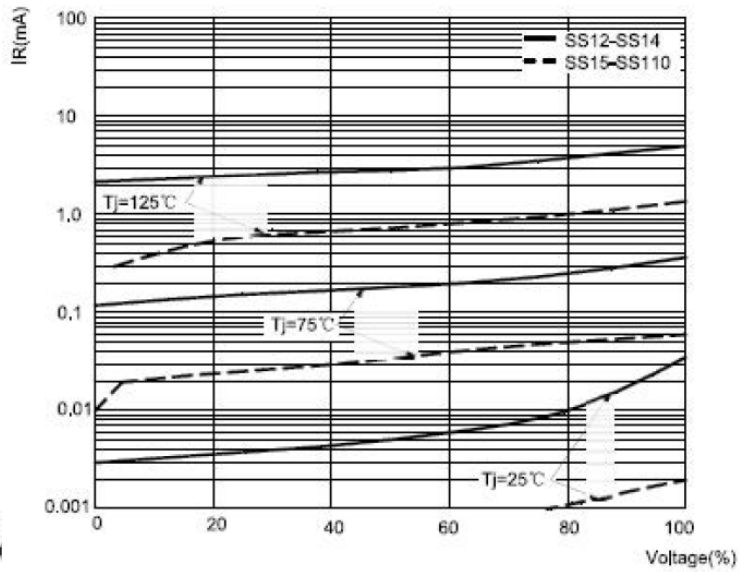
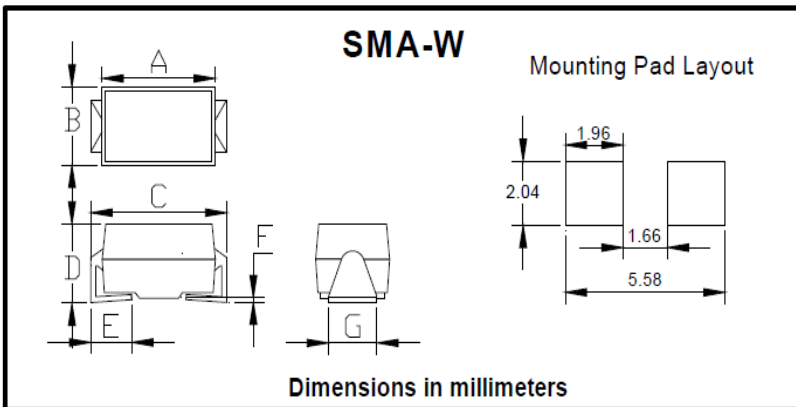


FIG.4: TYPICAL REVERSE CHARACTERISTICS



## ■ 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



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