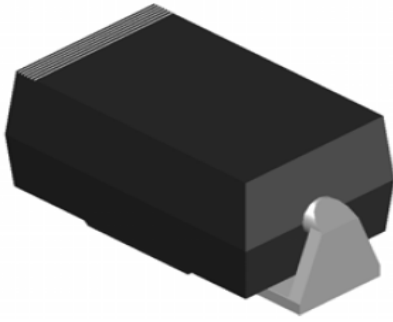
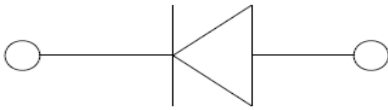


Surface Mount Schottky Rectifier



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_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 _{θJ-A}	℃/W	Between junction and ambient	88 ¹⁾						
	R _{θJ-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)

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

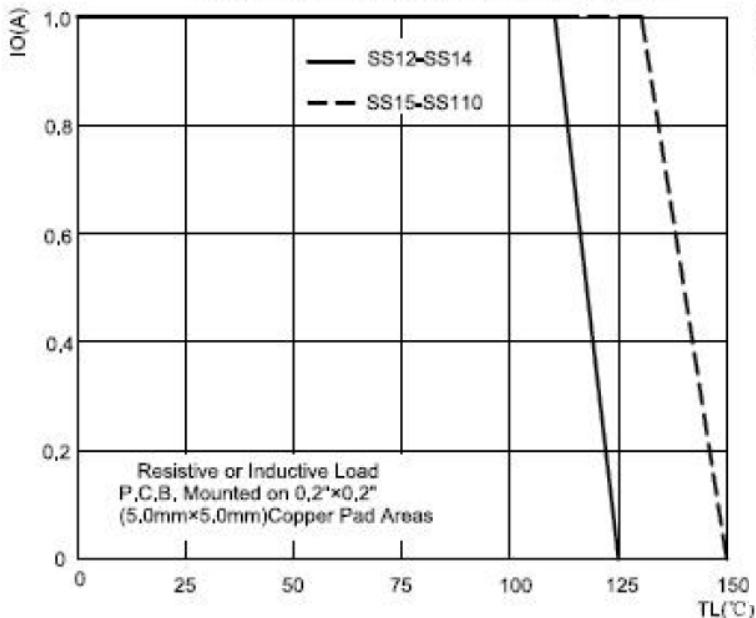
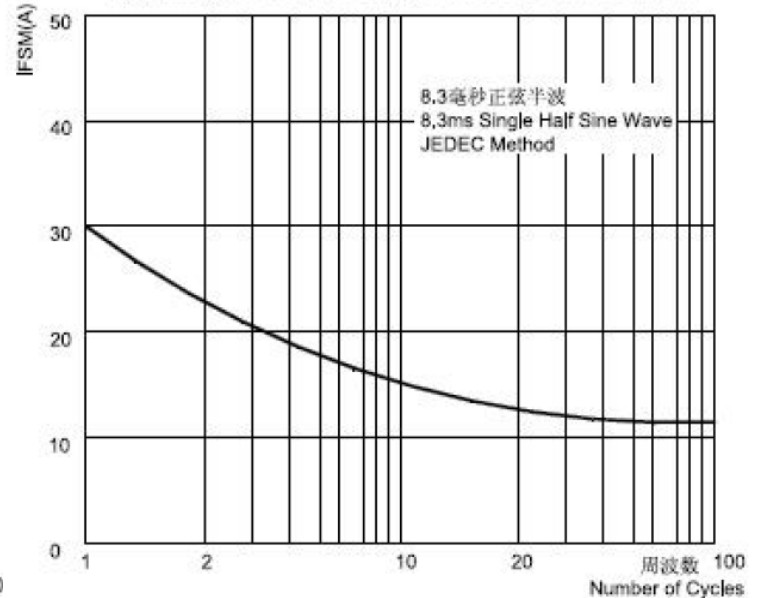


FIG.2: MAXIMUM NON-REPETITIVE FORWARD URGE CURRENT





SS12 THRU SS110

FIG.3: TYPICAL FORWARD CHARACTERISTICS

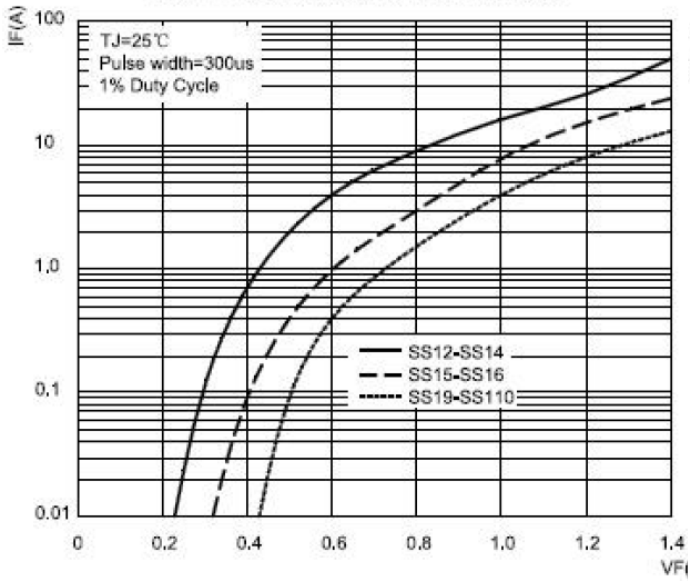
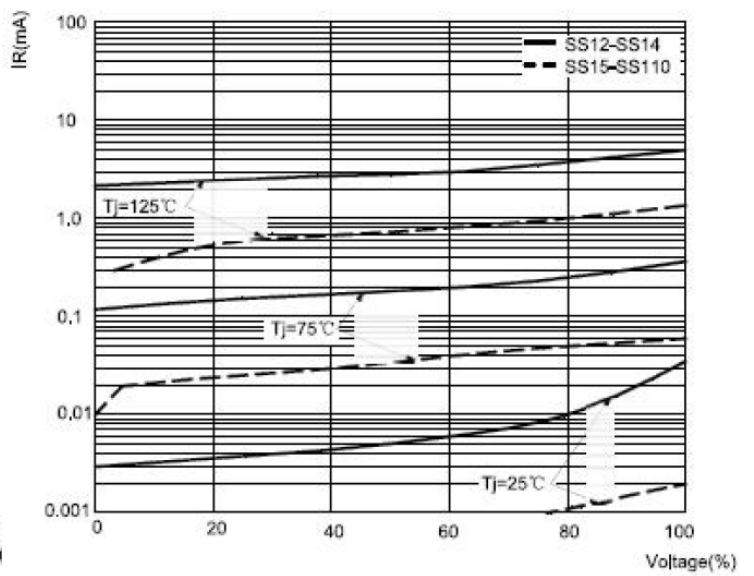
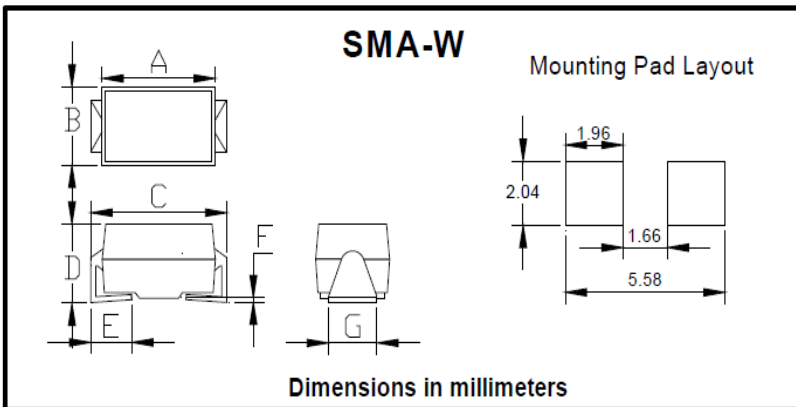


FIG.4: TYPICAL REVERSE CHARACTERISTICS



■ 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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