



DSS12-DSS110 Schottky Rectifier

Feature

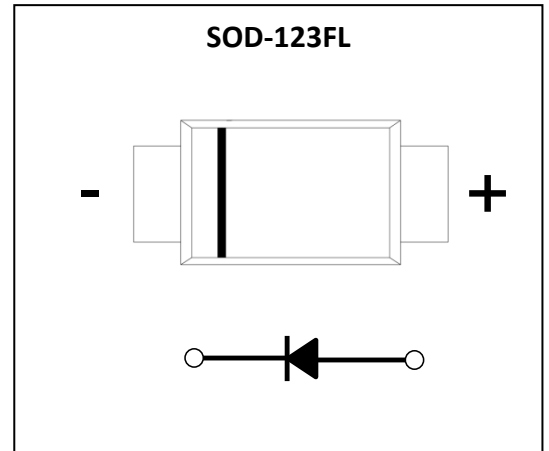
- High current capability
- Low VF
- High surge current capability

Application

- Rectifier

Marking

- S1X or SS1X
X: From 2 To 10



ABSOLUTE MAXIMUM RATINGS (T_A=25°C unless otherwise noted)

Parameter	Symbol	DSS								Unit
		12	13	14	15	16	18	19	110	
Repetitive Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	90	100	V
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	63	70	V
Average Forward Current (60HZ Half-sine wave, Resistance load, TL(Fig.1))	I _{F(AV)}	1.0								A
Non-repetitive Peak Forward Surge Current (60Hz Half-sine wave ,1 cycle ,T _a =25°C)	I _{FSM}	30								A
Junction Temperature	T _J	-55 ~ +125			-55 ~ +150					°C
Storage Temperature	T _{STG}	-55 ~ +150								°C

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

Parameter	Symbol	Test Condition	DSS							Unit	
			12	13	14	15	16	18	19		110
Peak Forward Voltage	V _F	I _F =1A	0.55		0.70		0.85			V	
Peak Reverse Current	I _{RRM1}	V _{RM} =V _{RRM}	T _a =25°C			0.5		0.1			mA
	I _{RRM2}		T _a =100°C		10		5.0			mA	
Thermal Resistance(Typical)	R _{θJ-A}	Between junction and ambient	88							°C/W	
	R _{θJ-L}	Between junction and terminal	28							°C/W	

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

Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

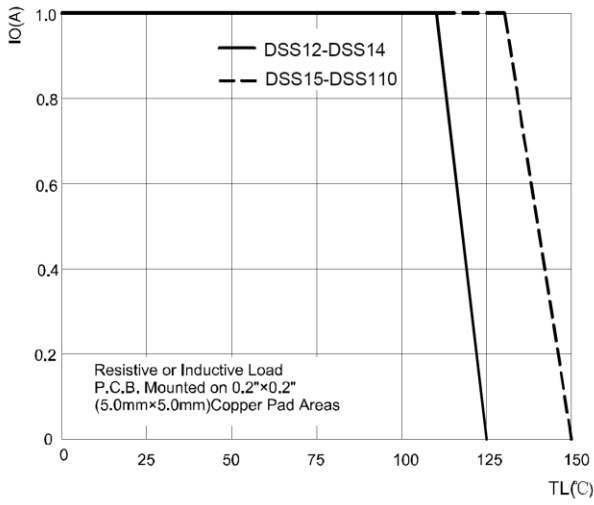


FIG2: Surge Forward Current Capability

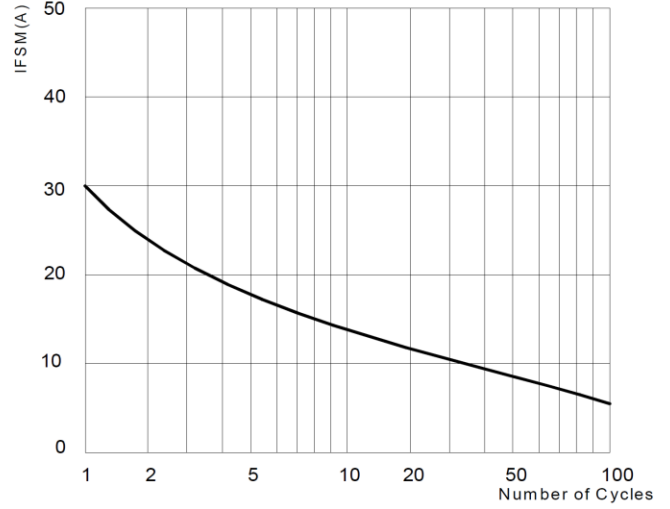


FIG3: TYPICAL FORWARD CHARACTERISTICS

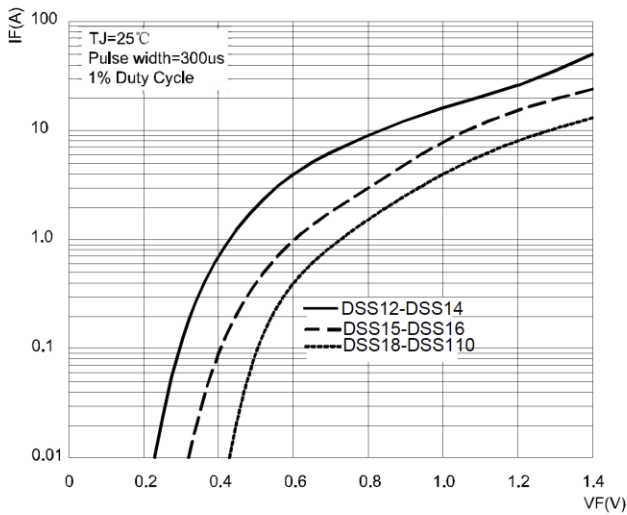
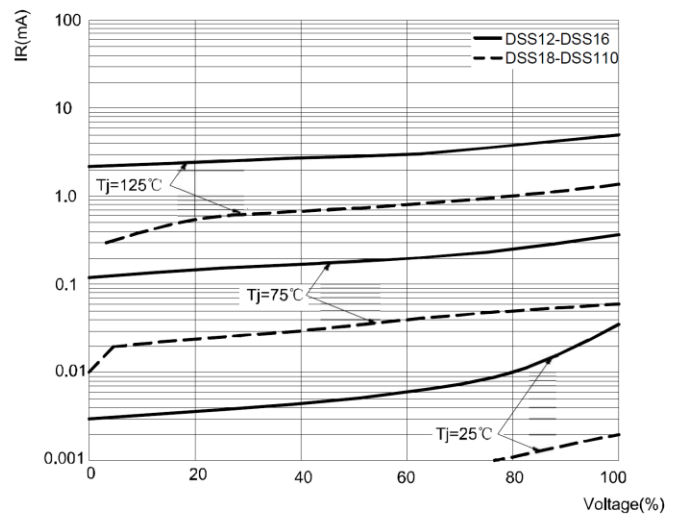
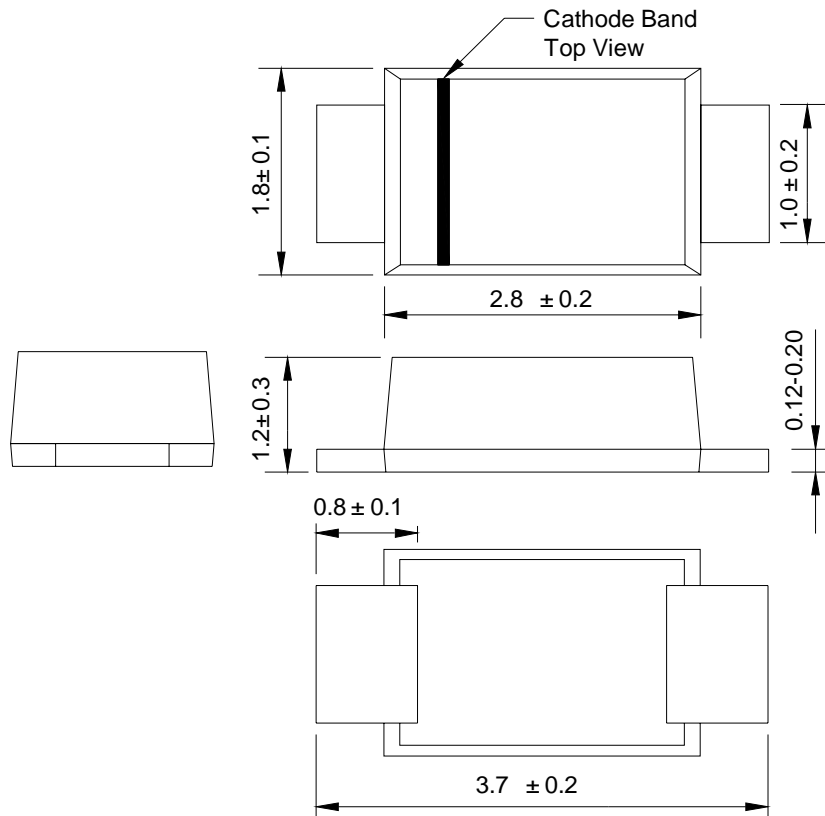


FIG.4 : TYPICAL REVERSE CHARACTERISTICS



SOD-123FL Package Outline Dimensions



Dimensions in millimeters

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