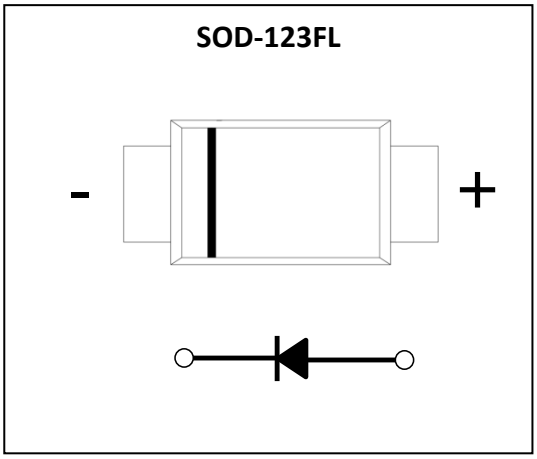
DSS12-DSS110

20~100V-1A Schottky Rectifier

DSS12-DSS110 Schottky Rectifier



Feature

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

Application

- Rectifier

Application

- S1X
  X: From 2 To 10

ABSOLUTE MAXIMUM RATINGS (T_a=25℃ 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 ,Ta =25℃)	I_{FSM}	30								A
Junction Temperature	T_J	-55 ~ +125			-55 ~ +150					℃
Storage Temperature	T_{STG}	-55 ~ +150								℃

ELECTRICAL CHARACTERISTICS (T_a=25℃ 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℃	0.5					0.1			mA
	I_{RRM2}		T_a=100℃	10			5.0					mA
Thermal Resistance(Typical)	$R_{\theta J-A}$	Between junction and ambient		88								℃/W
	$R_{\theta J-L}$	Between junction and terminal		28								℃/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

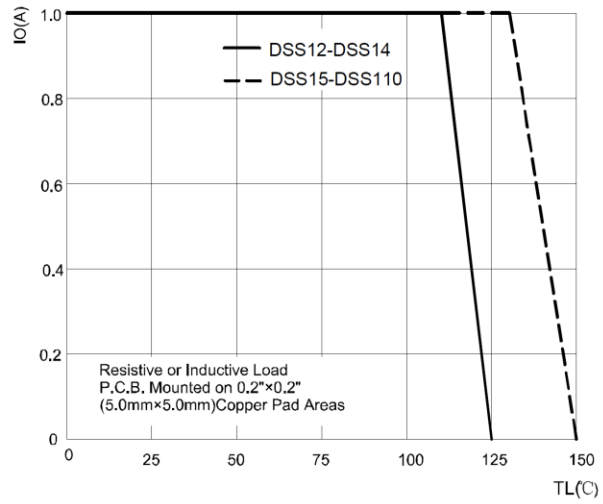


FIG2:Surge Forward Current Capadility

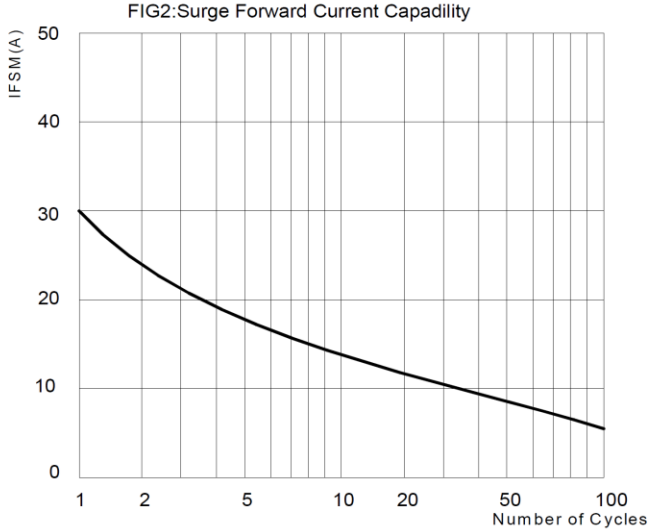


FIG3:TYPICAL FORWARD CHARACTERISTICS

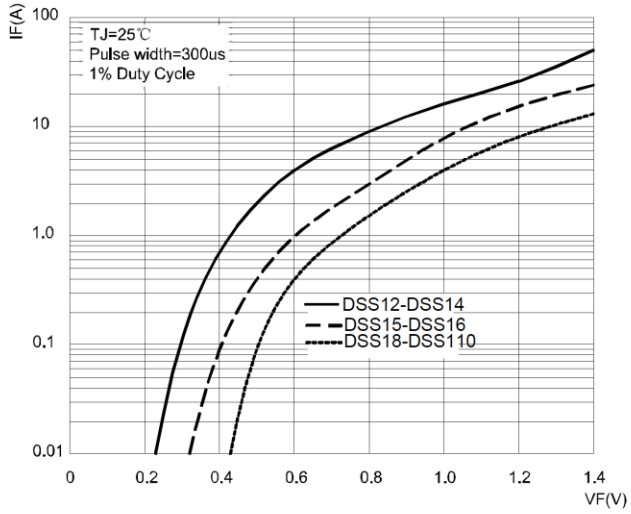
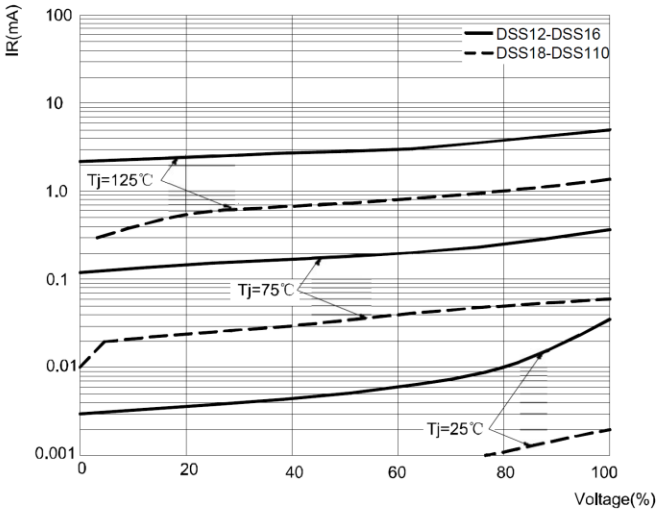
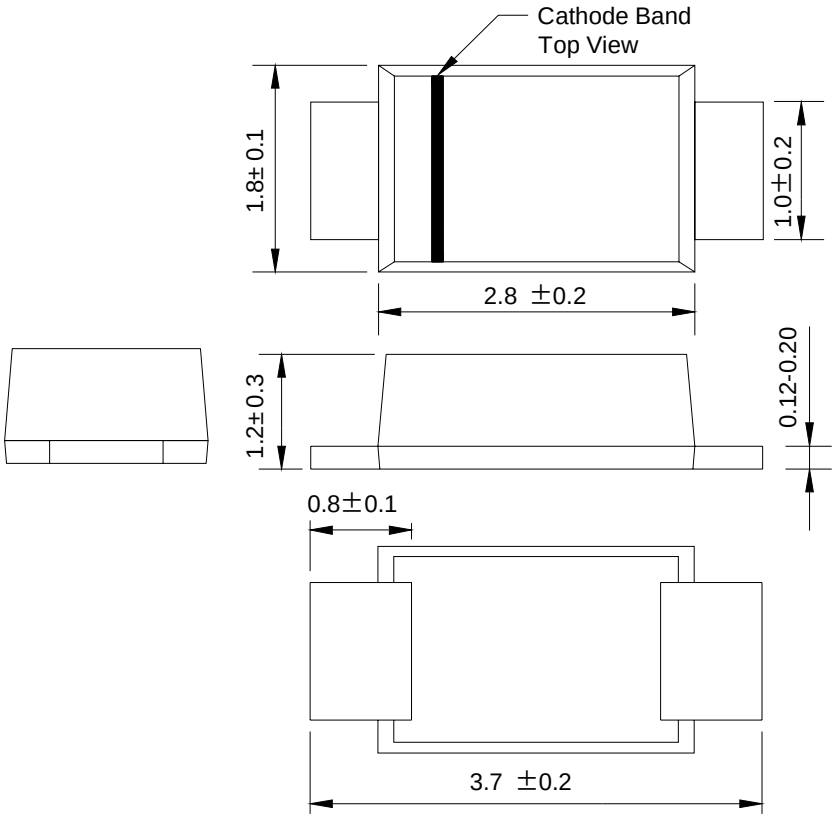


FIG.4 ： TYPICAL REVERSE CHARACTERISTICS

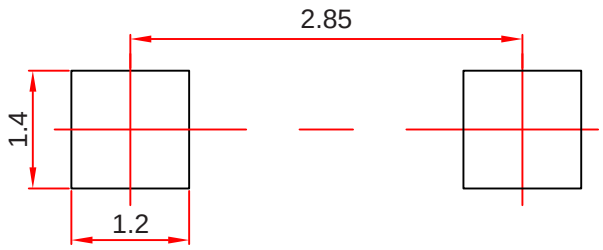


SOD-123FL Package Outline Dimensions



Dimensions in millimeters

SOD-123FL Suggested Pad Layout



Note:
1.Controlling dimension:in millimeters.
2.General tolerance:± 0.05mm.
3.The pad layout is for reference purposes only.