



SOD-123FL Plastic-Encapsulate Diodes

DSS12 THRU DSS110 Schottky Rectifier Diodes

Features

- $I_{F(AV)}$ 1A
- V_{RRM} 20V-100V
- High surge current capability
- Polarity: Color band denotes cathode

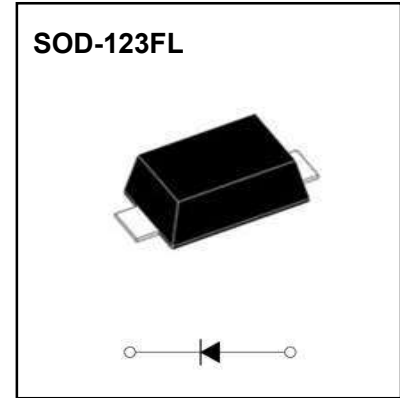
Applications

- Rectifier

Marking

- S1X

X : From 2 To 10



Limiting Values(Absolute Maximum Rating)

Item	Symbol	Unit	Test Conditions	DSS1							
				2	3	4	5	6	8	9	10
Repetitive Peak Reverse Voltage	V _{RRM}	V		20	30	40	50	60	80	90	100
Maximum RMS Voltage	V _{RMS}	V		14	21	28	35	42	56	63	70
Average Forward Current	I _{F(AV)}	A	60Hz Half-sine wave, Resistance load, 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							

Electrical Characteristics ($T=25^{\circ}\text{C}$ Unless otherwise specified)

Item	Symbol	Unit	Test Condition		DSS1						
					2	3	4	5	6	8	9
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		
	T _a =100℃			10		5.0					
Thermal Resistance(Typical)	R _{θJ-A}	℃/W	Between junction and ambient		88						
	R _{θJ-L}		Between junction and terminal		28						

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