



DSS22-DSS210 Plastic-Encapsulate Diodes

DSS22-DSS210 Schottky Rectifier

Features

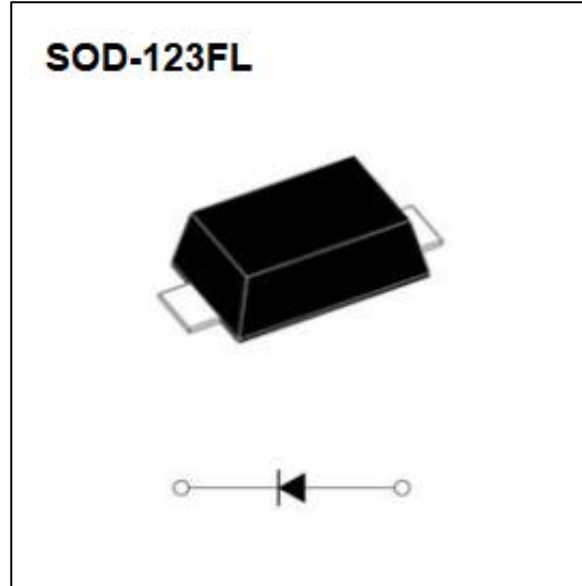
- I_o 2A.
- VRRM 20V-100V.
- High surge current capability.
- Polarity:Color band denotes cathode.
- AEC-Q101 Qualified.

Application

- Rectifier.

Marking

- DSS22-DSS210: S22-S210.



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

Item	Symbol	Unit	Test Conditions	DSS						
				22	23	24	25	26	28	210
Repetitive Peak Reverse Voltage	V _{RRM}	V		20	30	40	50	60	80	100
Maximum RMS Voltage		V		20	30	40	50	60	80	100
Average Forward Current	I _{F(AV)}	A	60HZ Half-sine wave, Resistance load, TL(Fig.1)	2.0						
Surge(Non-repetitive)Forward Current	I _{FSM}	A	60Hz Half-sine wave, 1 cycle, T _a =25°C	40						
Junction Temperature	T _J	°C		-55 ~ +150						
Storage Temperature	T _{STG}	°C		-55 ~ +150						

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

Item	Symbol	Unit	Test Condition	DSS							
				22	23	24	25	26	28	210	
Peak Forward Voltage	V _F	V	I _F =2.0A	0.55			0.70		0.85		
Peak Reverse Current	I _{R_{RM}1}	mA	V _{RM} =V _{R_{RM}} T _a =25°C	0.5						0.1	
	I _{R_{RM}2}			10			5.0				
Thermal Resistance(Typical)	R _{θJ-A}	°C/ W	Between junction and ambient	75 ¹⁾							
	R _{θJ-L}		Between junction and terminal	17 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.

Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

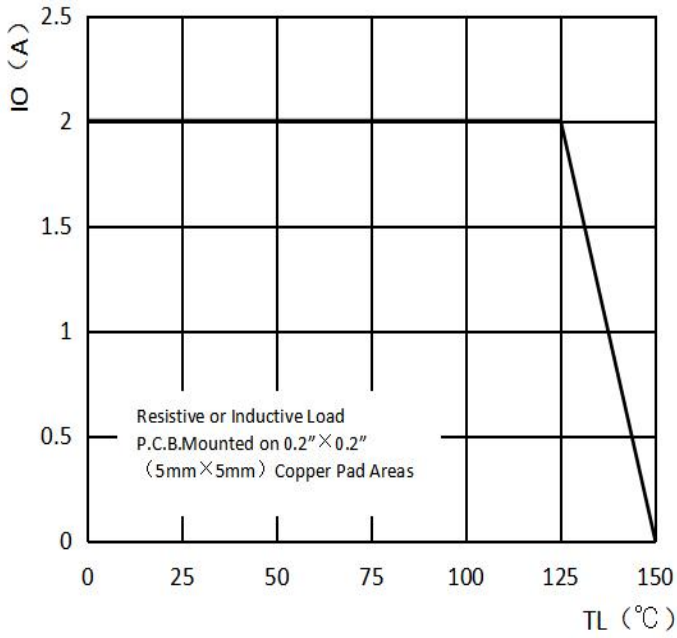


FIG.2: MAXIMUM NON-REPETITIVE FORWARD URGE CURRENT

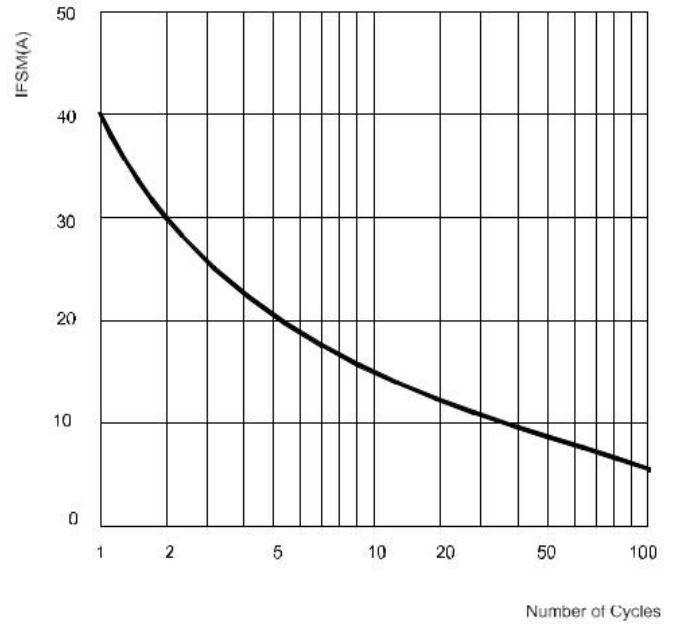


FIG.3: TYPICAL FORWARD CHARACTERISTICS

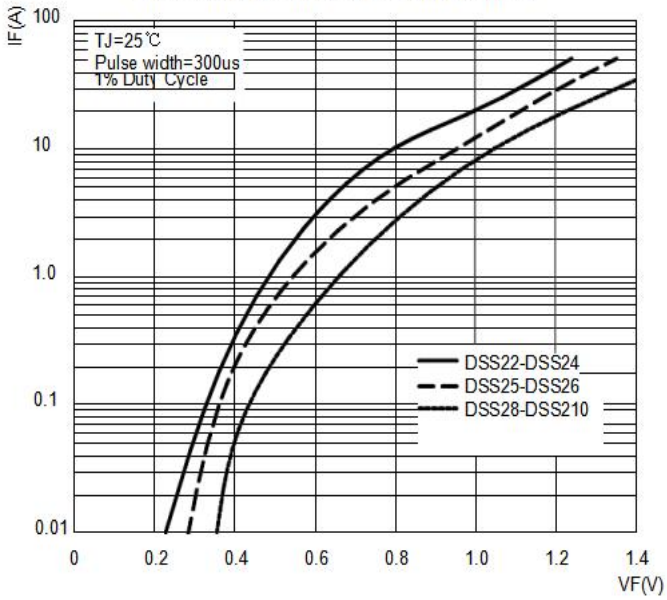
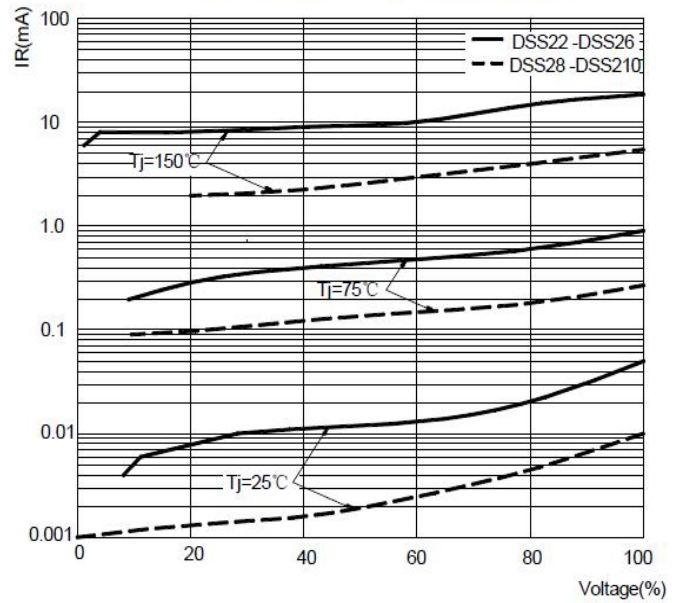
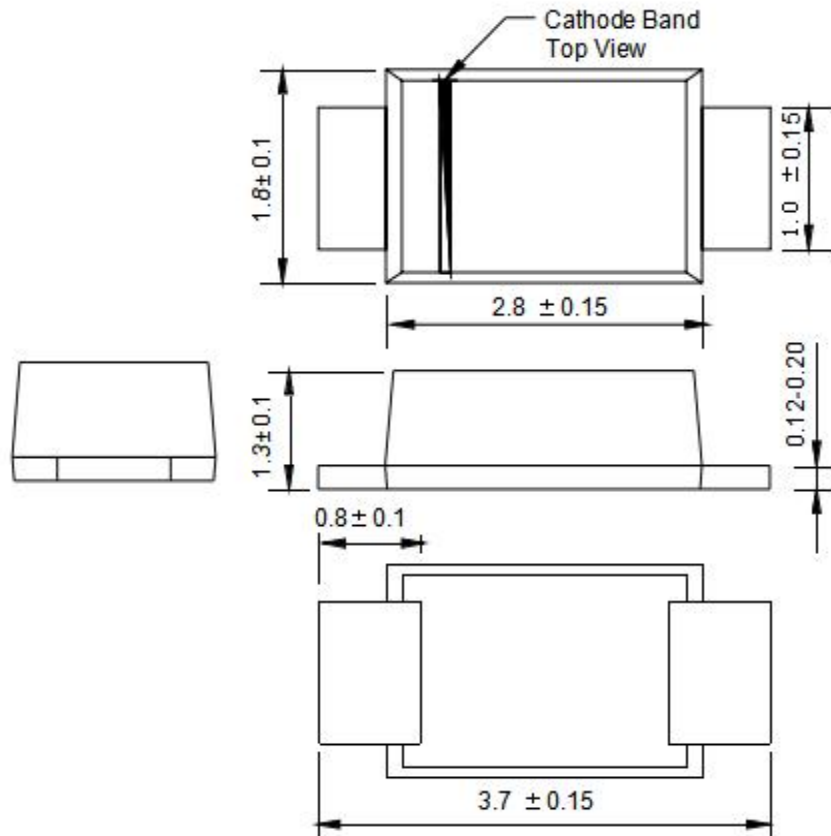


FIG.4: TYPICAL REVERSE CHARACTERISTICS

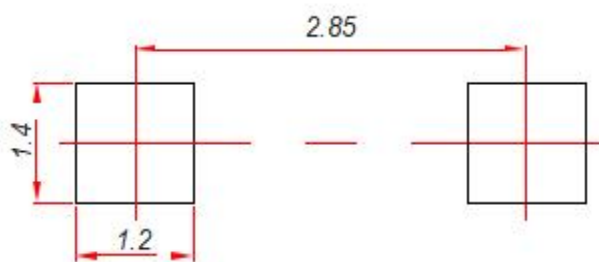


SOD-123FL Package Outline Dimensions



Dimensions in millimeters

SOD-123FL Suggested Pad Layout



Note:

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

NOTICE

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