



GP
ELECTRONICS

DSS22-DSS220

20~200V-2A Schottky Rectifier

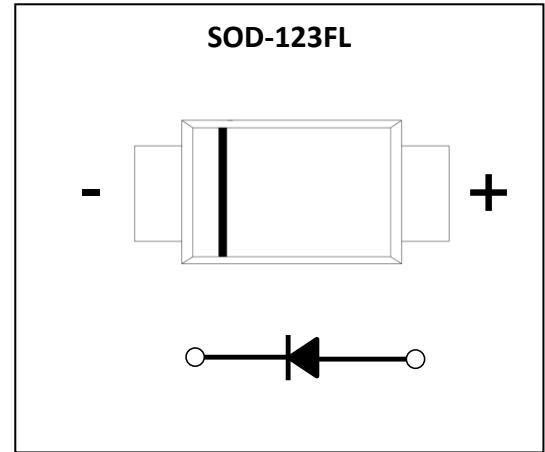
DSS22-DSS220 Schottky Rectifier

Feature

- For surface mounted application
- High current capability
- Low V_F
- High surge current capability

MARKING:

- S2X
- X: From 2 To 20



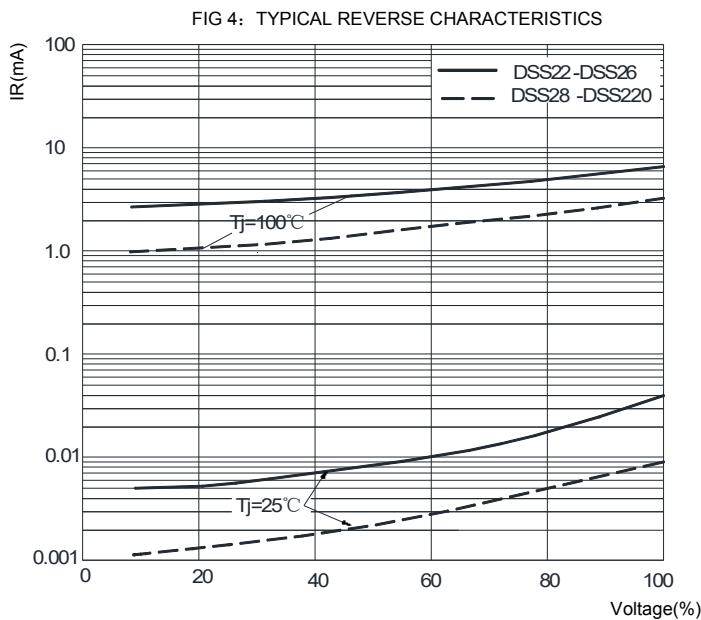
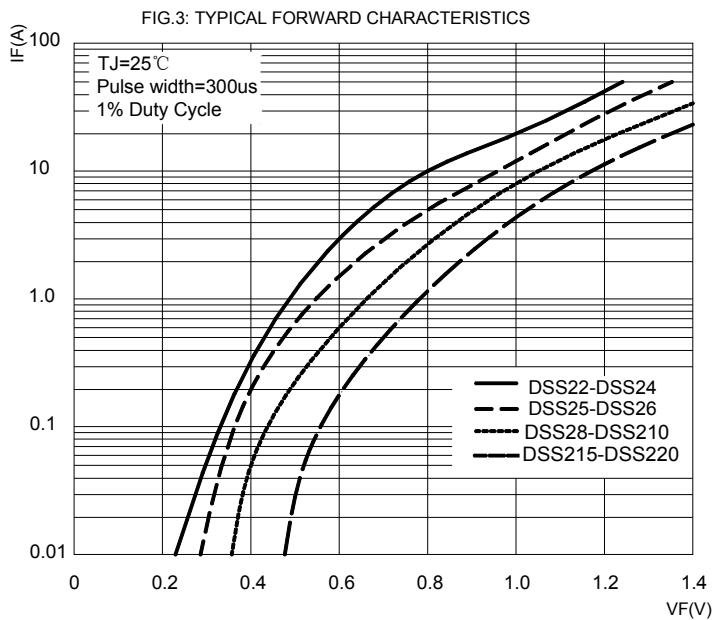
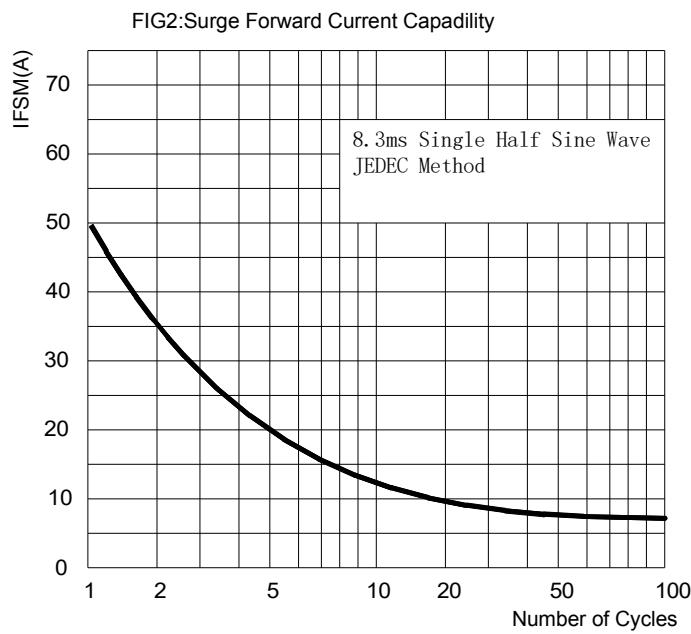
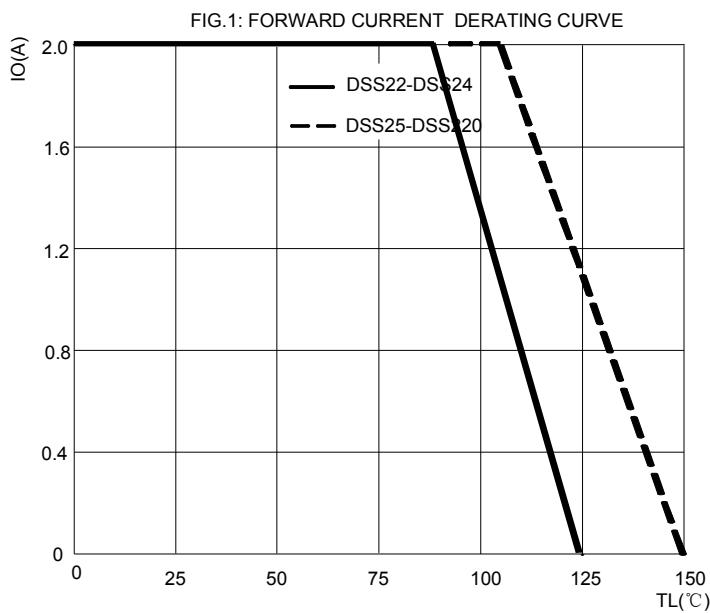
ABSOLUTE MAXIMUM RATINGS ($T_a=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	DSS									Unit
		22	23	24	25	26	28	210	215	220	
Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	150	200	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	70	105	140	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	100	150	200	V
Average Forward Current (60HZ Half-sine wave, Resistance load, TL(Fig.1))	$I_{F(AV)}$	2									A
Non-repetitive Peak Forward Surge Current (60Hz Half-sine wave ,1 cycle , $T_a=25^\circ\text{C}$)	I_{FSM}	50									A
Junction Temperature	T_J	$-55 \sim +125$			$-55 \sim +150$						$^\circ\text{C}$
Storage Temperature	T_{STG}	$-55 \sim +150$									$^\circ\text{C}$

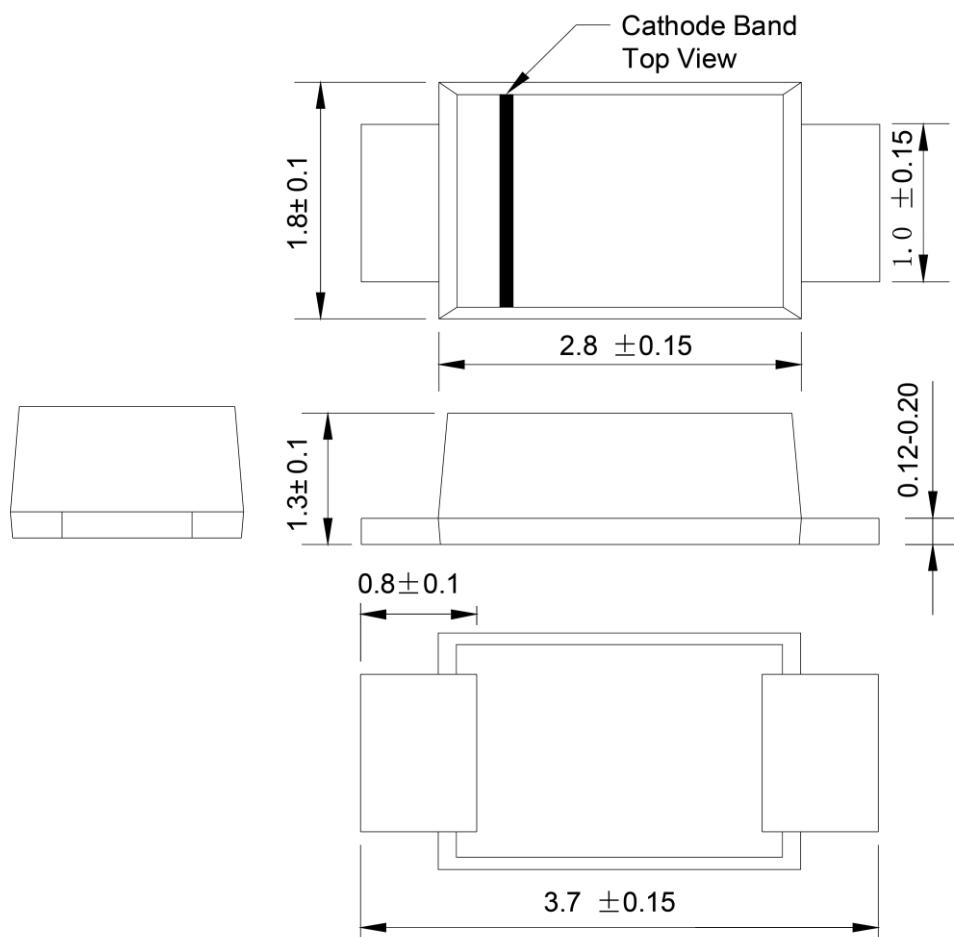
ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Test Condition	DSS									Unit								
			22	23	24	25	26	28	210	215	220									
Peak Forward Voltage	V_F	$I_F = 2\text{A}$	0.55			0.70			0.85			V								
Peak Reverse Current	I_{RRM1}	$V_{RM}=V_{RRM}$	$T_a=25^\circ\text{C}$	0.5					0.1				mA							
	I_{RRM2}		$T_a=100^\circ\text{C}$	10					5				mA							
Thermal Resistance (Typical)	$R_{\theta J-A}$	Between junction and ambient		85									$^\circ\text{C/W}$							
	$R_{\theta J-L}$	Between junction and terminal		23									$^\circ\text{C/W}$							
Junction Capacitance (Typical)	C_J	$F=1.0\text{MHz}, V_R=4.0\text{V}$	103			95			60			32	pF							

Typical Characteristics

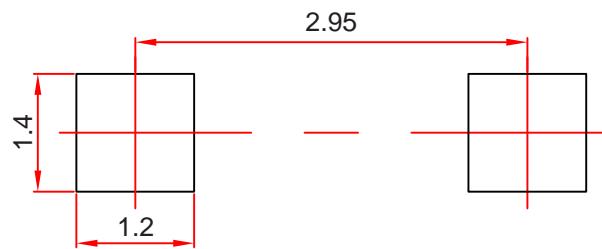


SOD-123FL Package Outline Dimensions



Dimensions in inches and (millimeters)

SOD-123FL Suggested Pad Layout



Note:

1. Controlling dimension: in millimeters.
2. General tolerance: $\pm 0.05\text{mm}$.
3. The pad layout is for reference purposes only.