



GP
ELECTRONICS

DSS32-DSS320

20~200V-3A Schottky Rectifier

DSS32-DSS320 Schottky Rectifier

Feature

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

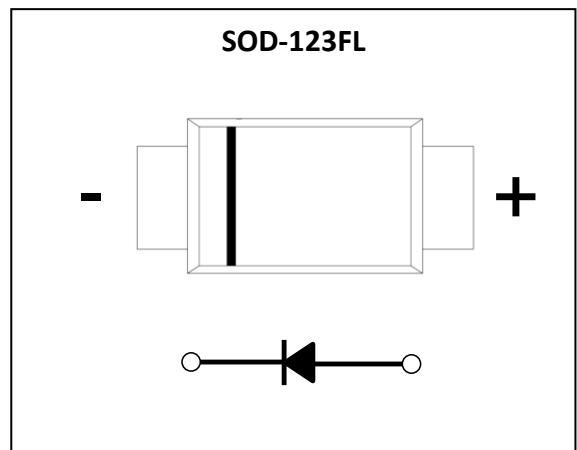
Application

- Rectifier

Marking

- S3X

X: From 2 To 20



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

Parameter	Symbol ol	DSS3									Unit
		2	3	4	5	6	8	10	15	20	
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
Average Forward Current (60HZ Half-sine wave, Resistance load)	$I_{F(AV)}$	3.0									A
Non-repetitive Peak Forward Surge Current (60Hz Half-sine wave ,1 cycle , $T_a = 25^\circ\text{C}$)	I_{FSM}	70									A
Junction Temperature	T_J	-55 ~ +125			-55 ~ +150						°C
Storage Temperature	T_{STG}	-55 ~ +150									°C

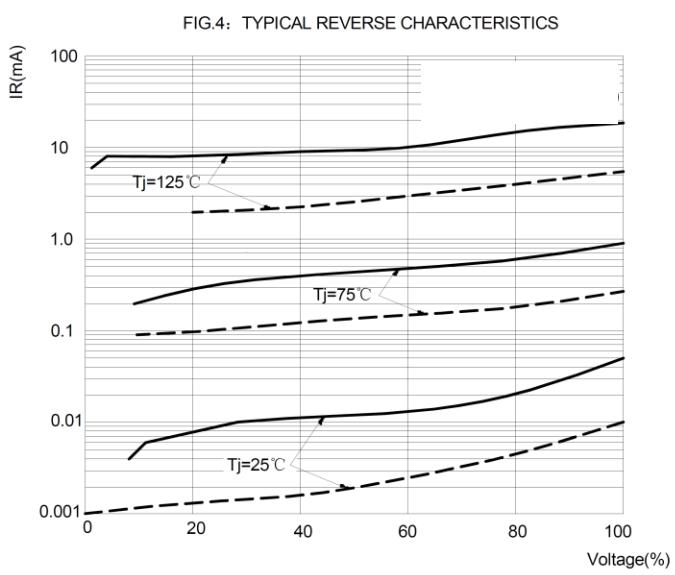
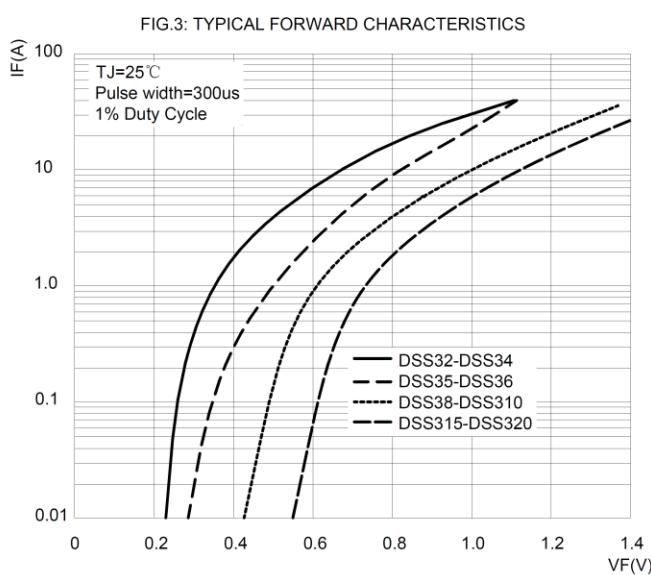
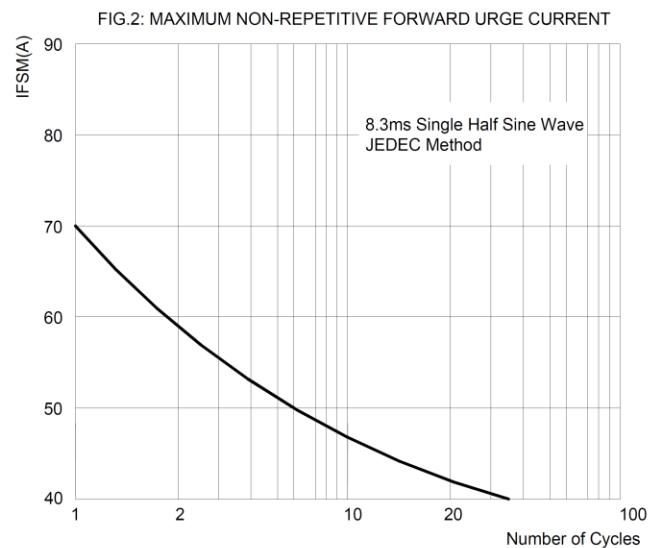
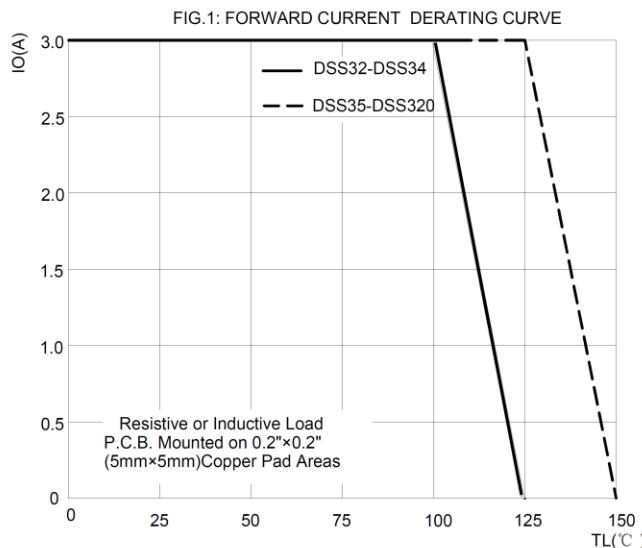
ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Test Condition	DSS3									Unit		
			2	3	4	5	6	8	10	15	20			
Peak Forward Voltage	V_F	$I_F = 3\text{A}$	0.55	0.70	0.85	0.95						V		
Peak Reverse Current	I_{RRM1}	$V_{RM} = V_{RRM}$	$T_a = 25^\circ\text{C}$	0.5			0.1					mA		
	I_{RRM2}			10	5									
Thermal Resistance(Typical)	$R_{\theta J-A}$	Between junction and ambient		55							°C/W			

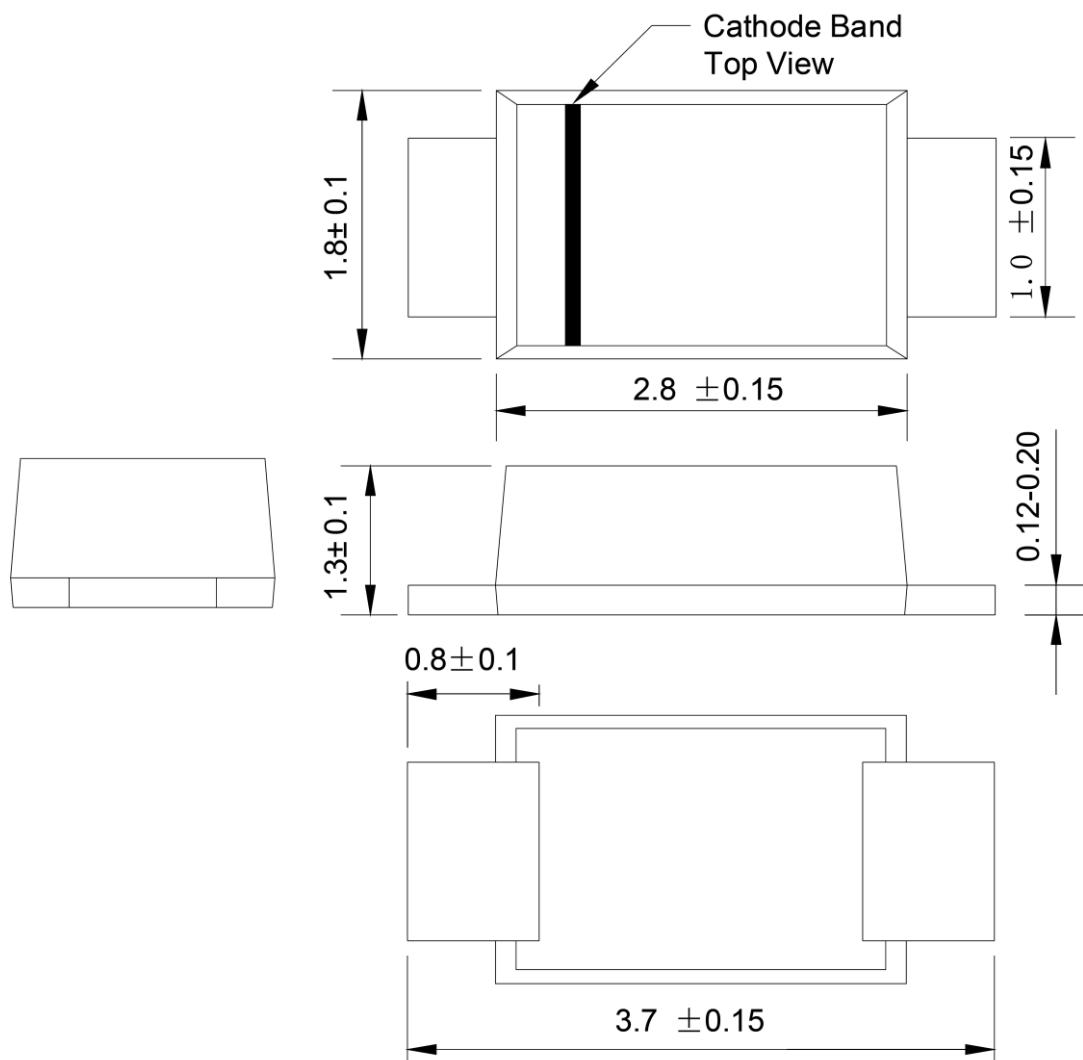
Notes:

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



SOD-123FL Package Outline Dimensions



Dimensions in inches and (millimeters)