

Features

- High surge current capability
- Polarity: Color band denotes cathode

Applications

- Rectifier

Marking

- S2X (X = 2 TO 1 0)

SOD-123HE



Limiting values (Absolute Maximum Rating)

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 _{RMS}	V		14	21	28	35	42	56	70
Maximum DC Blocking Voltage	V _{DC}	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, Ta=25℃	60						
Junction Temperature	T _J	℃		-55~+125			-55~+150			
Storage Temperature	T _{STG}	℃		-55 ~ +150						

Electrical Characteristics (T=25 °C Unless otherwise specified)

Item	Symbol	Unit	Test Condition		DSS						
					22	23	24	25	26	28	210
Peak Forward Voltage	V _{FM}	V	I _{FM} =2.0A		0.55			0.70		0.85	
Peak Reverse Current	I _{RRM1}	mA	V _{RM} =V _{RRM}	Ta=25℃	0.5					0.01	
	Ta=125℃			10					0.5		
Thermal Resistance(Typical)	R _{eJ-A}	℃/W	Between junction and ambient		75						
	R _{eJ-L}		Between junction and terminal		17						

Typical characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

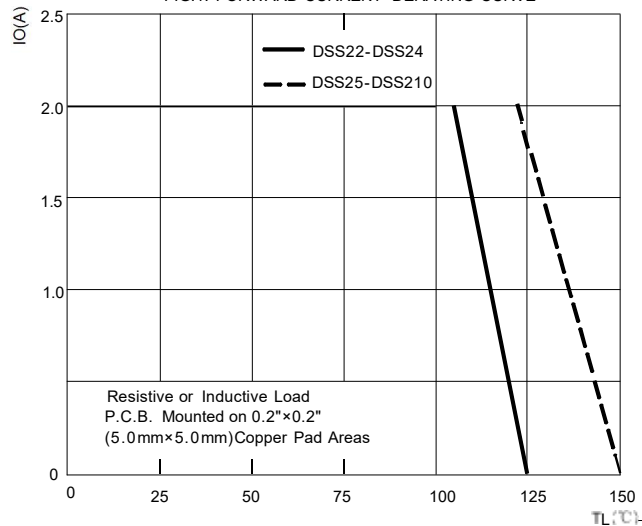


FIG.2: MAXIMUM NON-REPETITIVE FORWARD URGE CURRENT

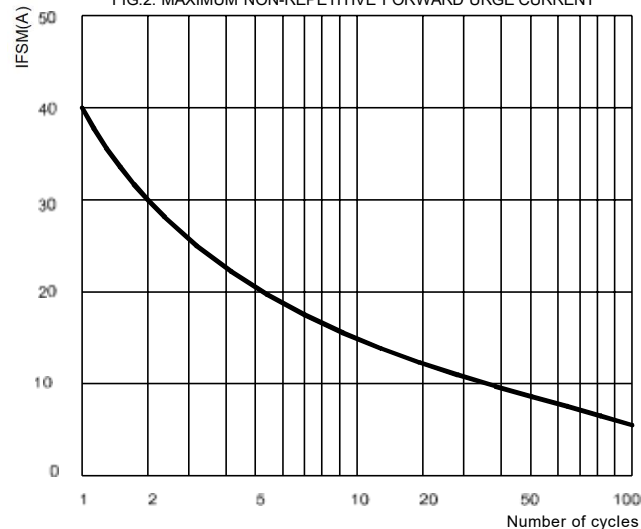


FIG.3: TYPICAL FORWARD CHARACTERISTICS

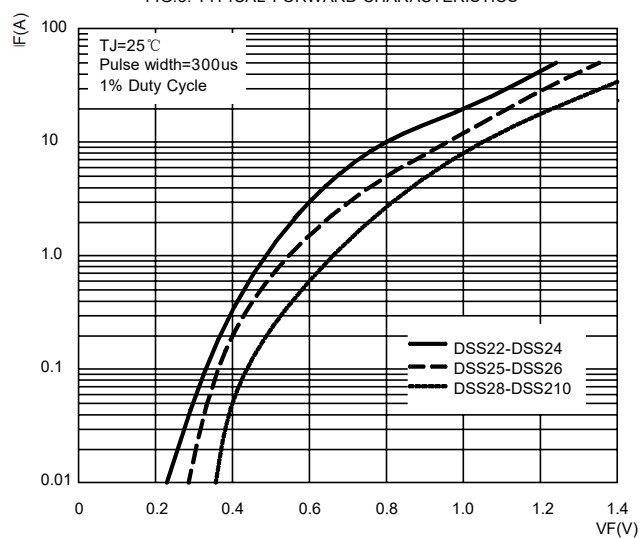
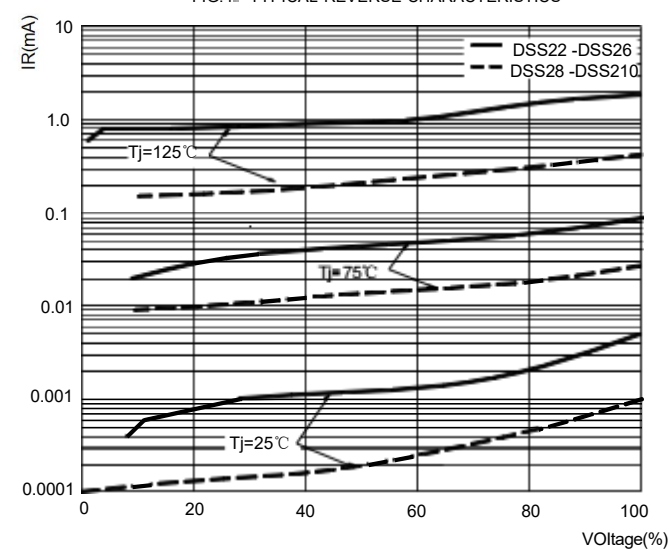
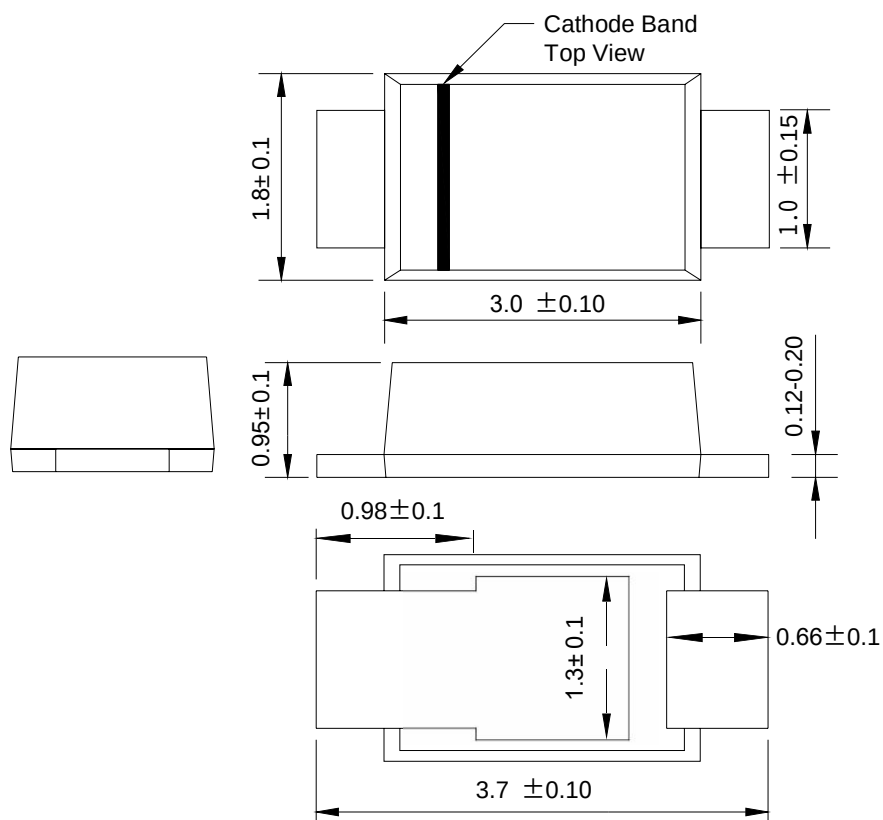


FIG.4: TYPICAL REVERSE CHARACTERISTICS



SOD-123HE Package outline Dimensions



Dimensions in millimeters