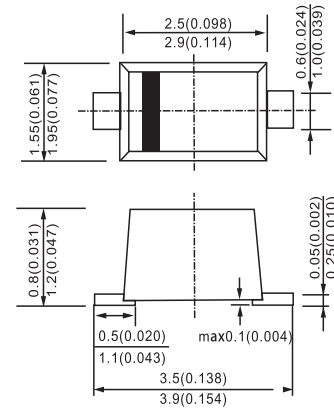


FEATURES

- High reliability with superior moisture resistance
- Applicable to Automatic Insertion

SOD-123



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

• Absolute Maximum Ratings (If not specified $T_I=25^\circ\text{C}$)

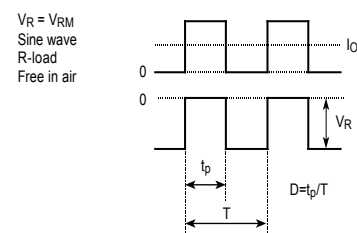
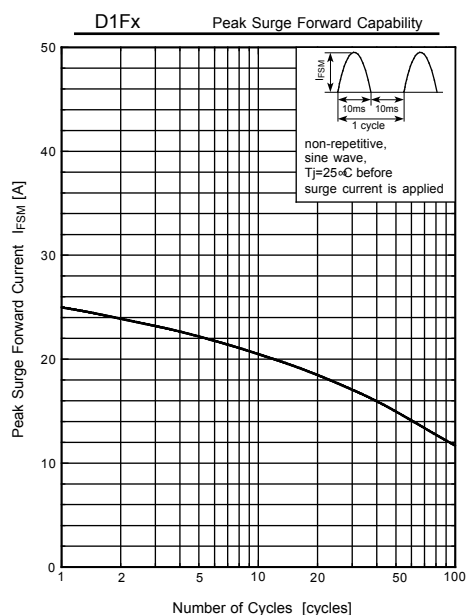
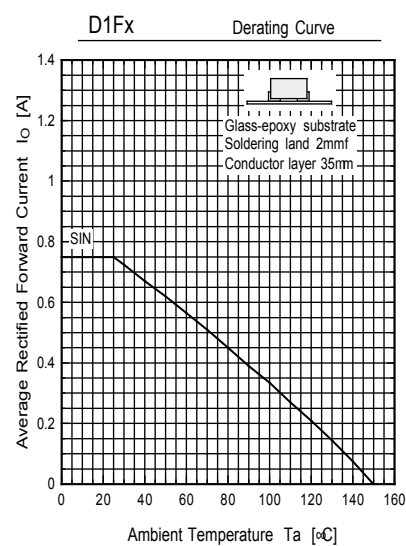
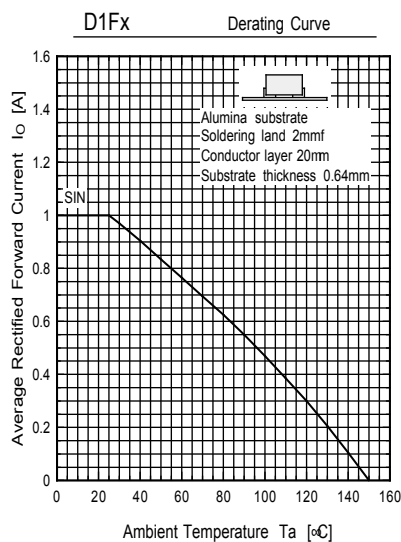
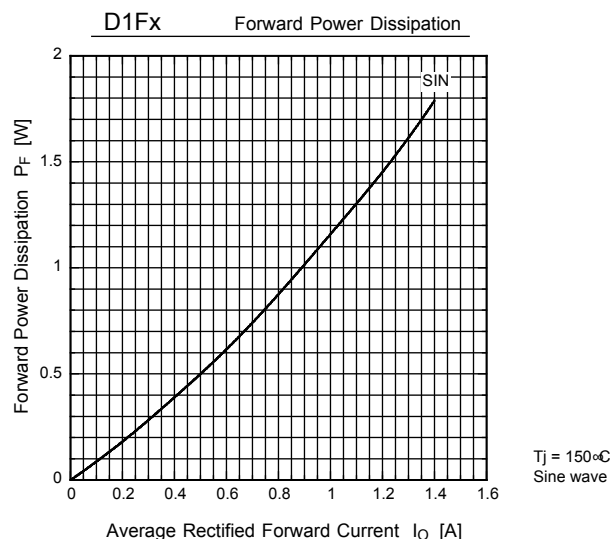
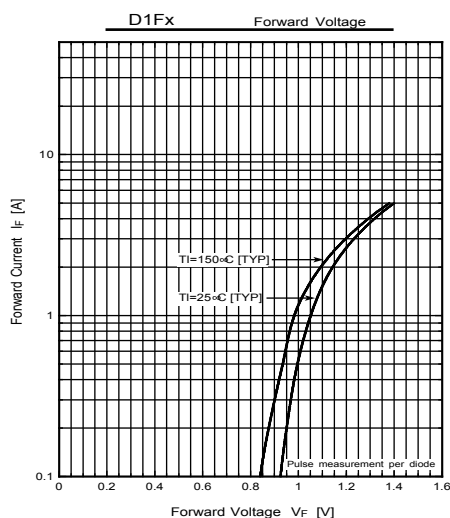
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	T_{stg}		-55 ~ 150	
Operating Junction Temperature	T_j		150	
Maximum Reverse Voltage	V_{RM}		600	V
Average Rectified Forward Current	I_o	50Hz sine wave, R-load, On alumina substrate $T_a=25$	1	A
		50Hz sine wave, R-load, On glass-epoxy substrate $T_a=25$	0.75	
Peak Surge Forward Current	I_{FSM}	50Hz sine wave, Non-repetitive 1 cycle peak value, $T_j=25$	25	A

• Electrical Characteristics (If not specified $T_I=25^\circ\text{C}$)

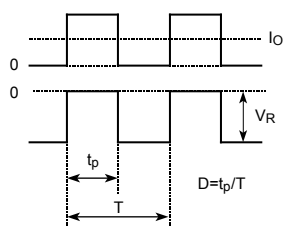
Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V_F	$I_F=1A$, Pulse measurement	Max.1.1	V
Reverse Current	I_R	$V_R=V_{RM}$, Pulse measurement	Max.10	μA
Thermal Resistance	θ_{jl}	junction to lead	Max.23	/W
	θ_{ja}	junction to ambient, On alumina substrate	Max.108	
		junction to ambient, On glass-epoxy substrate	Max.157	

RATINGS AND CHARACTERISTIC CURVES

D1F60



$V_R = V_{RM}$



$V_R = V_{RM}$
Sine wave
R-load
Free in air

