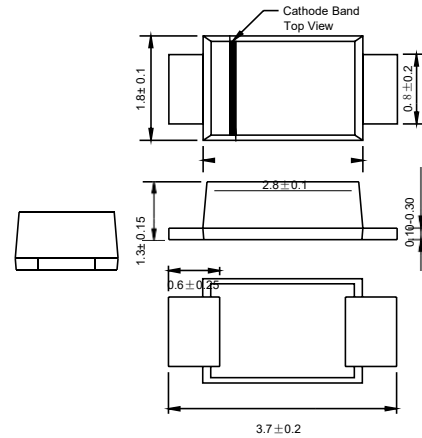


Features

- Metal to silicon rectifier, majority carrier conduction.
- For use in low voltage, high frequency inverters free wheeling, and polarity protection applications.
- Low power loss, high efficiency.
- High current capability, low V_F .
- High surge capacity.
- Glass passivated

SOD-123FL



Dimensions in millimeters

Absolute Maximum Ratings*

$T_A = 25^\circ\text{C}$ unless otherwise noted

CHARACTERISTICS	SYMBOL	DS22W	DS23W	DS24W	DS25W	DS26W	DS28W	DS210W	DS215W	DS220W	UNIT
Maximum Recurrent 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	100	125	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	100	150	200	V
Maximum Average Forward Rectified Current @ $T_L=100^\circ\text{C}$	$I_{(AV)}$	2.0									A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed On Rated Load (JEDEC Method)	I_{FSM}	60									A
Maximum Forward Voltage at 2.0A DC	V_F	0.45	0.5	0.55	0.7	0.85	0.92	0.95			V
Maximum DC Reverse Current @ $T_J=25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_J=100^\circ\text{C}$	I_R	1.0 20									mA
Typical Junction Capacitance (Note1)	C_J	200									pF
Typical Thermal Resistance (Note2)	$R_{\theta JL}$	15									$^\circ\text{C/W}$
Operating Temperature Range	T_J	-55 to +150									$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to + 150									$^\circ\text{C}$

RATINGS AND CHARACTERISTIC CURVES

FIG.1--PEAK FORWARD SURGE CURRENT

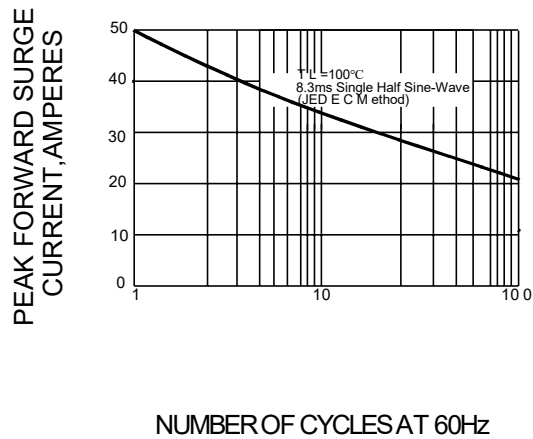


FIG.2 -- TYPICAL FORWARD CHARACTERISTICS

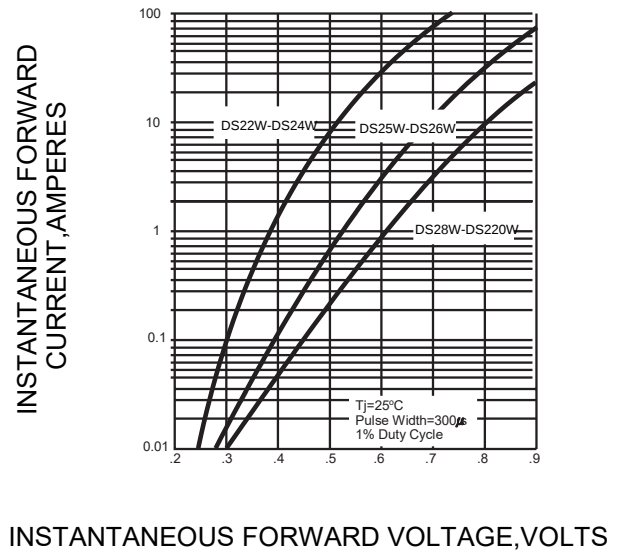
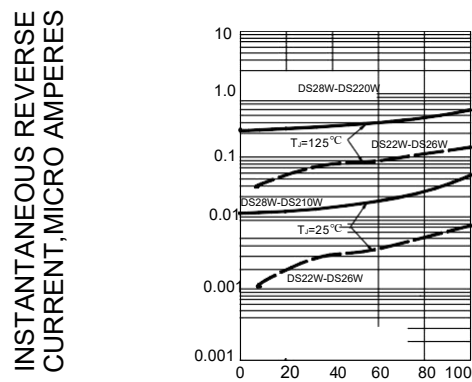


FIG.3 -- TYPICAL REVERSE CHARACTERISTICS



PERCENT OF RATED PEAK REVERSE VOLTAGE,