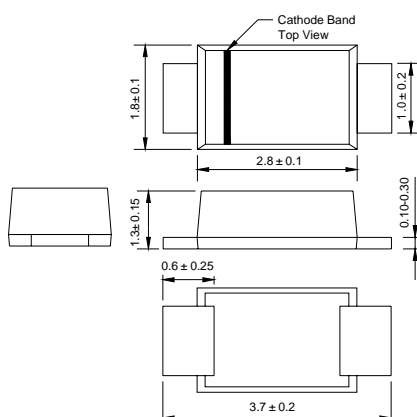


# ES1DW

<p style="text-align: center;"><b>SOD-123FL</b></p>  <p style="text-align: center;">Dimensions in millimeters</p>	<p style="text-align: center;"><b>FEATURES</b></p> <ul style="list-style-type: none"> <li>◆ Glass passivated device</li> <li>◆ Ideal for surface mounted applications</li> <li>◆ Low reverse leakage</li> <li>◆ Metallurgically bonded construction</li> <li>◆ High temperature soldering guaranteed: 250°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension</li> </ul> <p style="text-align: center;"><b>MECHANICAL DATA</b></p> <p><b>Case:</b> JEDEC SOD-123FL molded plastic body over passivated chip  <b>Terminals:</b> Plated axial leads, solderable per MIL-STD-750, Method 2026  <b>Polarity:</b> Color band denotes cathode end  <b>Mounting Position:</b> Any  <b>Weight:</b> 0.0007 ounce, 0.02 grams</p>
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## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.  
 Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Catalog Number	SYMBOLS	ES1DW E1D	UNITS
Maximum repetitive peak reverse voltage	$V_{RRM}$	200	VOLTS
Maximum RMS voltage	$V_{RMS}$	140	VOLTS
Maximum DC blocking voltage	$V_{DC}$	200	VOLTS
Maximum average forward rectified current	$I_{(AV)}$	1.0	Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	25.0	Amps
Maximum instantaneous forward voltage at 1.0A	$V_F$	0.95	Volts
Maximum DC reverse current $T_A=25^{\circ}C$ at rated DC blocking voltage $T_A=100^{\circ}C$	$I_R$	5.0 100.0	$\mu A$
Maximum reverse recovery time (NOTE 1)	$t_{rr}$	35	ns
Typical junction capacitance (NOTE 2)	$C_J$	10	pF
Typical thermal resistance (NOTE 3)	$R_{\theta JA}$	85	K/W
Operating junction and storage temperature range	$T_J, T_{STG}$	-55 to +150	°C

**Note:** 1. Measured with  $I_F=0.5A$ ,  $I_R=1A$ ,  $I_{rr}=0.25A$ .  
 2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.  
 3. PCB mounted on 0.2" x 0.2" (5.0 x 5.0mm) copper pad area.

## RATINGS AND CHARACTERISTIC CURVES

FIG. 1- FORWARD CURRENT DERATING CURVE

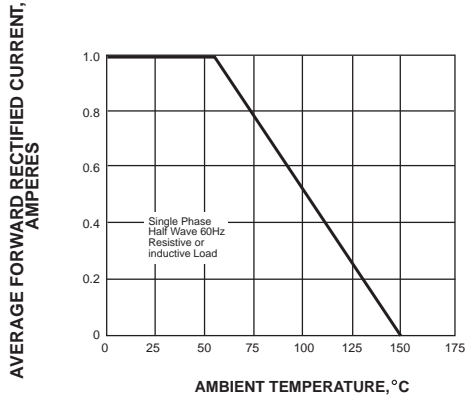


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

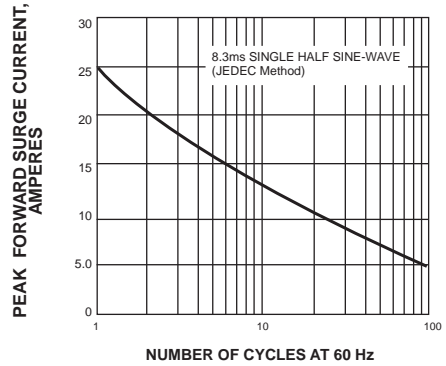


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

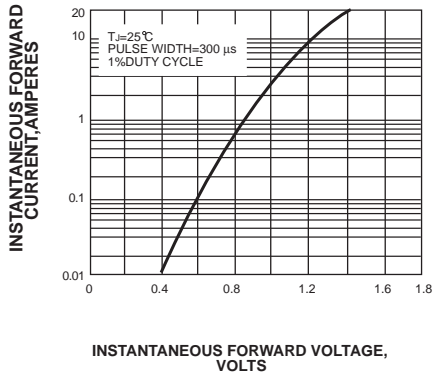


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

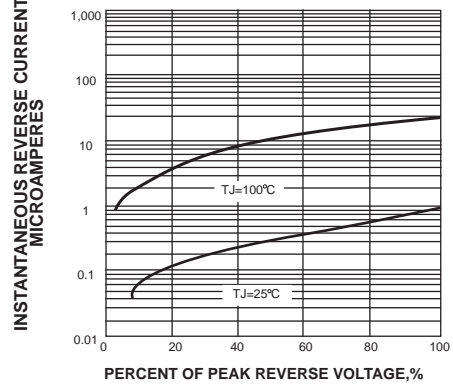


FIG. 5-TYPICAL JUNCTION CAPACITANCE

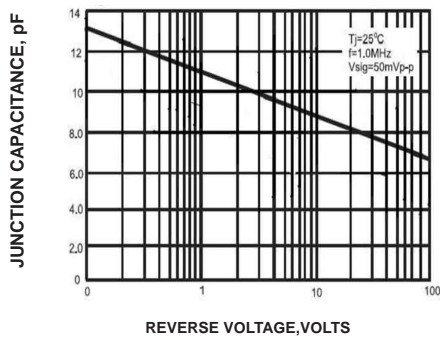
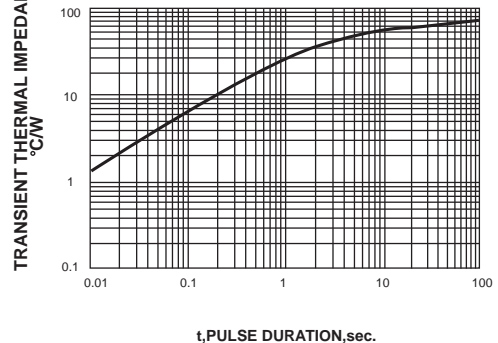


FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE



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