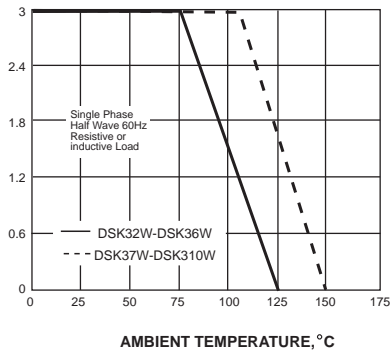


<p style="text-align: center;"><b>SOD-123FL</b></p> <p style="text-align: center;">Dimensions in millimeters</p>	<p style="text-align: center;"><b>FEATURES</b></p> <ul style="list-style-type: none"> <li>◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0</li> <li>◆ Metal silicon junction, majority carrier conduction</li> <li>◆ Low power loss, high efficiency</li> <li>◆ High forward surge current capability</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  <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>											
<p style="text-align: center;"><b>MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS</b></p>											
<p>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%.</p>											
Catalog Number	SYMBOLS	DSK32W <b>K32</b>	DSK33W <b>K33</b>	DSK34W <b>K34</b>	DSK35W <b>K35</b>	DSK36W <b>K36</b>	DSK37W <b>K37</b>	DSK38W <b>K38</b>	DSK39W <b>K39</b>	DSK310W <b>K310</b>	<b>UNITS</b>
Maximum repetitive peak reverse voltage	$V_{RRM}$	20	30	40	50	60	70	80	90	100	VOLTS
Maximum RMS voltage	$V_{RMS}$	14	21	28	35	42	49	56	63	70	VOLTS
Maximum DC blocking voltage	$V_{DC}$	20	30	40	50	60	70	80	90	100	VOLTS
Maximum average forward rectified current	$I_{(AV)}$	3.0									Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	80.0									Amps
Maximum instantaneous forward voltage at 3.0A	$V_F$	0.52	0.55	0.70			0.85			Volts	
Maximum DC reverse current at rated DC blocking voltage	$I_R$	0.5						10.0			mA
Operating junction temperature range	$T_J$	-50 to +125						-50 to +150			°C
Storage temperature range	$T_{STG}$	-50 to +150									°C

**RATINGS AND CHARACTERISTIC CURVES**

AVERAGE FORWARD RECTIFIED CURRENT,  
AMPERES

FIG. 1- FORWARD CURRENT DERATING CURVE



PEAK FORWARD SURGE CURRENT,  
AMPERES

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

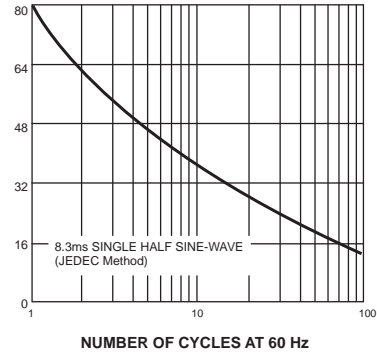


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

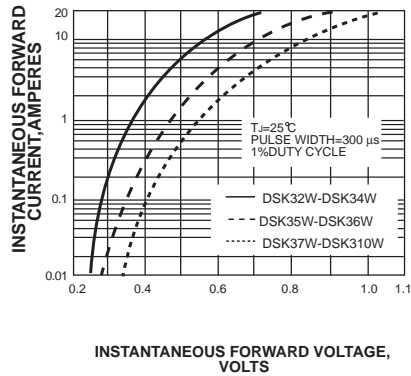
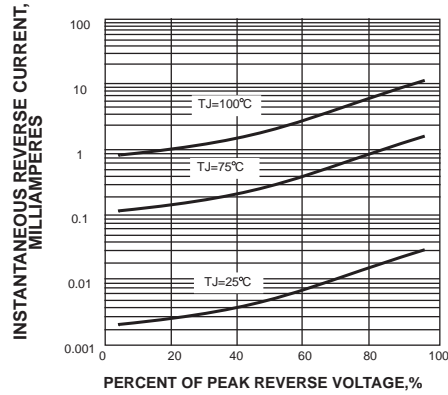


FIG. 4-TYPICAL REVERSE CHARACTERISTICS



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