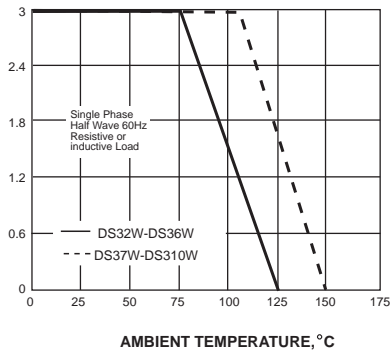


<p style="text-align: center;">SOD-123FL</p> <p style="text-align: center;">Dimensions in millimeters</p>	<p style="text-align: center;">FEATURES</p> <ul style="list-style-type: none"> ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0 ◆ Metal silicon junction, majority carrier conduction ◆ Low power loss, high efficiency ◆ High forward surge current capability ◆ High temperature soldering guaranteed: 250°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension 										
<p style="text-align: center;">MECHANICAL DATA</p> <p>Case: JEDEC SOD-123FL molded plastic body Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026 Polarity: Color band denotes cathode end Mounting Position: Any Weight: 0.0007 ounce, 0.02 grams</p>											
<p style="text-align: center;">MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS</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>											
<p>Catalog Number</p>	<p>SYMBOLS</p>	<p>DS32W K32</p>	<p>DS33W K33</p>	<p>DS34W K34</p>	<p>DS35W K35</p>	<p>DS36W K36</p>	<p>DS37W K37</p>	<p>DS38W K38</p>	<p>DS39W K39</p>	<p>DS310W K310</p>	<p>UNITS</p>
<p>Maximum repetitive peak reverse voltage</p>	<p>V_{RRM}</p>	<p>20</p>	<p>30</p>	<p>40</p>	<p>50</p>	<p>60</p>	<p>70</p>	<p>80</p>	<p>90</p>	<p>100</p>	<p>VOLTS</p>
<p>Maximum RMS voltage</p>	<p>V_{RMS}</p>	<p>14</p>	<p>21</p>	<p>28</p>	<p>35</p>	<p>42</p>	<p>49</p>	<p>56</p>	<p>63</p>	<p>70</p>	<p>VOLTS</p>
<p>Maximum DC blocking voltage</p>	<p>V_{DC}</p>	<p>20</p>	<p>30</p>	<p>40</p>	<p>50</p>	<p>60</p>	<p>70</p>	<p>80</p>	<p>90</p>	<p>100</p>	<p>VOLTS</p>
<p>Maximum average forward rectified current</p>	<p>$I_{(AV)}$</p>	<p style="text-align: center;">3.0</p>									<p>Amp</p>
<p>Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)</p>	<p>I_{FSM}</p>	<p style="text-align: center;">80.0</p>									<p>Amps</p>
<p>Maximum instantaneous forward voltage at 3.0A</p>	<p>V_F</p>	<p>0.52</p>	<p>0.55</p>	<p style="text-align: center;">0.70</p>			<p style="text-align: center;">0.85</p>			<p>Volts</p>	
<p>Maximum DC reverse current at rated DC blocking voltage</p>	<p>I_R</p>	<p style="text-align: center;">0.5</p>						<p style="text-align: center;">10.0</p>			<p>mA</p>
<p>Operating junction temperature range</p>	<p>T_J</p>	<p style="text-align: center;">-50 to +125</p>						<p style="text-align: center;">-50 to +150</p>			<p>°C</p>
<p>Storage temperature range</p>	<p>T_{STG}</p>	<p style="text-align: center;">-50 to +150</p>									<p>°C</p>

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

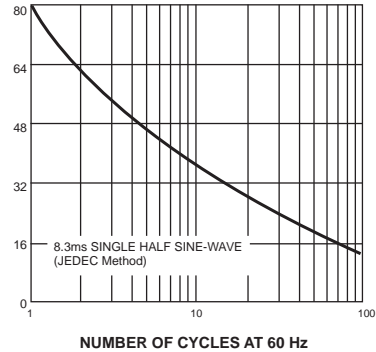


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

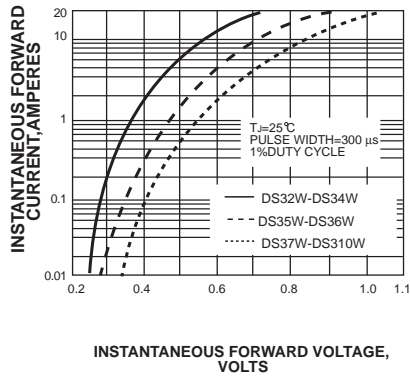
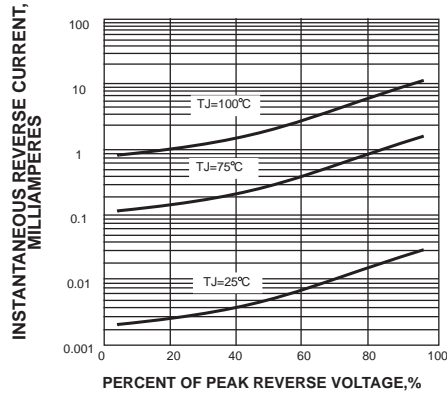


FIG. 4-TYPICAL REVERSE CHARACTERISTICS



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