

<b>SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER</b>	Reverse Voltage - 20 to 200 Volts Forward Current - 1.0 Ampere
<b>SOD-123FL</b> <p><i>Dimensions in inches and (millimeters)</i></p>	<b>Features</b> <ul style="list-style-type: none"> <li>➤ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0</li> <li>➤ For surface mounted applications</li> <li>➤ Built-in strain relief, ideal for automated placement</li> <li>➤ Low reverse leakage</li> <li>➤ High forward surge current capability</li> <li>➤ High temperature soldering guaranteed 250°C/10 seconds at terminals</li> </ul> <b>Mechanical Data</b> <p><b>Case :</b> Molded plastic body  <b>Terminals :</b> Solder plated, solderable per MIL-STD-750, Method 2026  <b>Polarity :</b> Polarity symbol marking on body  <b>Mounting Position :</b> Any  <b>Weight :</b> 0.0007 ounce, 0.02 grams</p>

## 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%.

Parameter	SYMBOLS	DS12W	DS14W	DS16W	DS18W	DS110W	DS115W	DS120W	UNITS
Maximum repetitive peak reverse voltage	$V_{RRM}$	20	40	60	80	100	150	200	V
Maximum RMS voltage	$V_{RMS}$	14	28	42	56	70	105	140	V
Maximum DC blocking voltage	$V_{DC}$	20	40	60	80	100	150	200	V
Maximum average forward rectified current at $T_L=100^\circ\text{C}$	$I_{(AV)}$	1.0							A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	30.0							A
Maximum instantaneous forward voltage at 1.0A	$V_F$	0.55	0.70	0.85	0.95				V
Maximum DC reverse current $T_A=25^\circ\text{C}$ at rated DC blocking voltage $T_A=125^\circ\text{C}$	$I_R$	0.5 50			0.05 10			mA	
Typical thermal resistance	$R_{qJA}$	85.0							°C/W
Operating junction temperature range	$T_J$	-55 to +125			-55 to +150				°C
Storage temperature range	$T_{STG}$	-55 to +150							°C

**Ratings And Characteristic Curves**

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

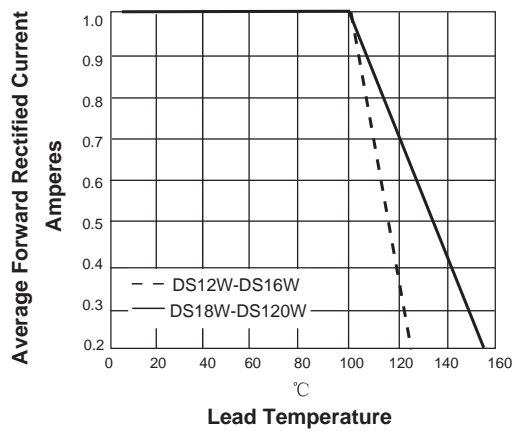


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

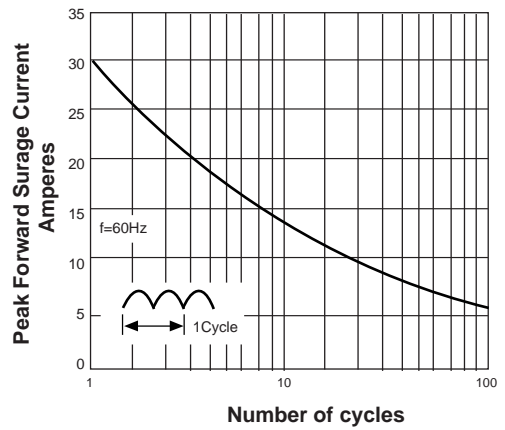


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

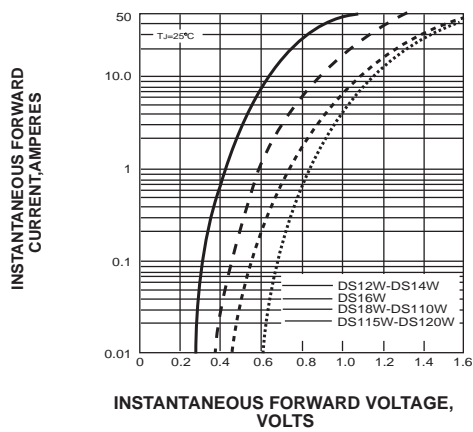
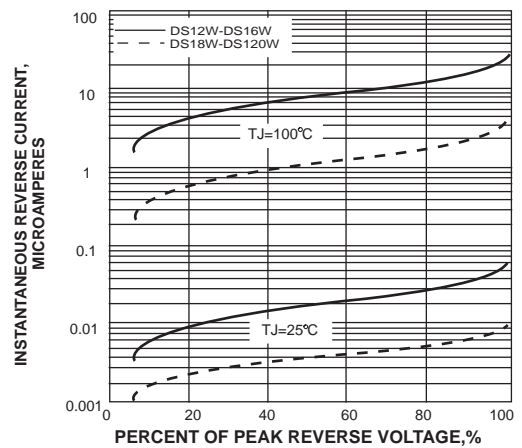


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



单击下面可查看定价，库存，交付和生命周期等信息

[>>DIOS\(迪恩思\)](#)