

## General description

1.0Amp Surface Mounted Schottky Barrier Rectifiers

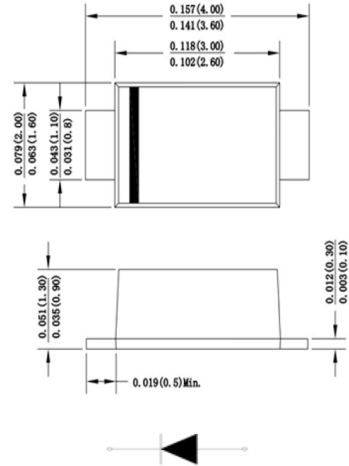
## FEATURES

- The plastic package carries Underwriters Laboratory
- Flammability Classification 94V-0
- For surface mounted applications
- Built-in strain relief, ideal for automated placement
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed
- 250 C/10 seconds at terminals

## Mechanical Data

- Case: Molded plastic body
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Polarity symbol marking on body

## SOD-123FL



Dimensions in inches and (millimeters)

## Maximum Ratings And Electrical Characteristics

Parameter	SYMBOLS	K12	K14	K16	K18	K110	K115	K120	UNITS
Marking Code	Mark	K12	K14	K16	K18	K110	K115	K120	N/A
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 $T_L=100^{\circ}C$	$I_{(AV)}$	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 $T_A=25^{\circ}C$ at rated DC blocking voltage $T_A=125^{\circ}C$	$I_R$	0.5		0.05		10		mA	
Typical thermal resistance	$R_{qJA}$	85.0							$^{\circ}C/W$
Operating junction temperature range	$T_J$	-55 to +125			-55 to +150				$^{\circ}C$
Storage temperature range	$T_{STG}$	-55 to +150							$^{\circ}C$

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

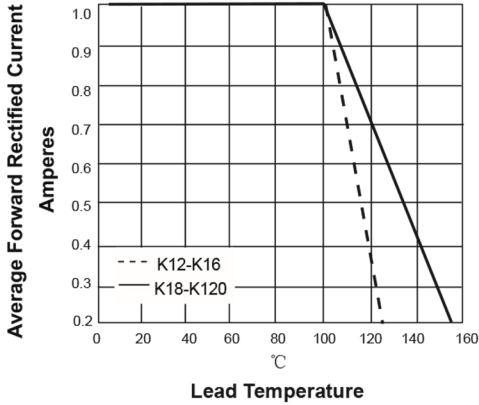


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

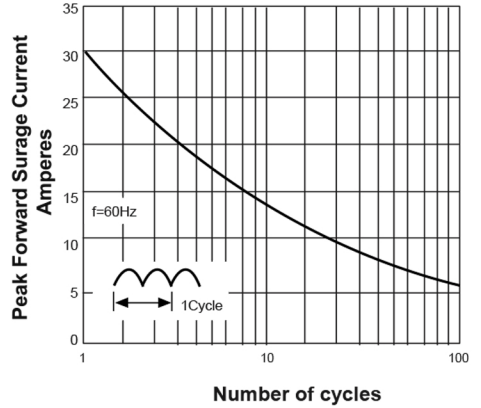


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

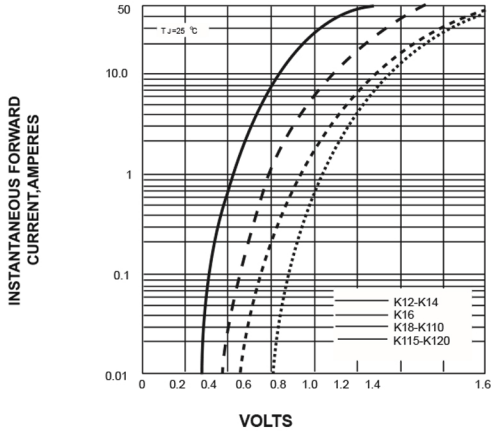


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS

