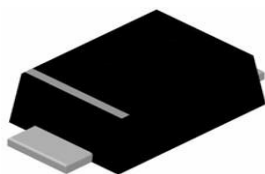


**SOD-123FL**



**Features**

- Low forward voltage drop
- Guarding protection
- Glass passivated junction
- High current capability
- High efficiency operation
- Extremely low thermal resistance

**Mechanical Data**

- CASE: SOD-123FL Molded Plastic
- Polarity: Color band denotes cathode end
- Mounting position: ANY
- Weight: 0.0025 ounces, 0.071 gram

**Maximum Ratings & 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%.)

CHARACTERISTICS	SYMBOL	DSS24	DSS26	DSS210	DSS220	UNITS
	Marking	K24	K26	K210	K220	
Maximum repetitive peak reverse voltage	$V_{RRM}$	40	60	100	200	V
Maximum RMS voltage	$V_{RWS}$	28	42	70	140	V
Maximum DC blocking voltage	$V_{DC}$	40	60	100	200	V
Maximum average forward rectified current at $T_L=90^\circ\text{C}$	$I_{F(AV)}$	2.0				A
Peak forward surge current 8.3ms single half-sine-wave	$I_{FSM}$	40				A
Maximum instantaneous forward voltage at $I_{FM}=2.0\text{A}$ (NOTE1)	$V_F$	0.55	0.70	0.85	0.95	V
Maximum DC reverse current $T_J=25^\circ\text{C}$ at rated DC blocking voltage $T_J=125^\circ\text{C}$	$I_R$	0.5 50.0		0.1 10.0		m A
Maximum thermal resistance	$R_{\theta JL}$	70				°C/W
Operating temperature range	$T_J$	-55 ---- +125				°C
Storage temperature range	$T_{STG}$	-55 ---- +150				°C

NOTE: 1.Pulse test: Pulse width 300us,duty cycle 1 %

**Summary of Packing Options**

Package	Packing Description	Packing Quantity	Industry Standard
SOD-123FL	Tape/Reel,7" reel	3000	EIA-481-1

## Ratings and Characteristic Curves

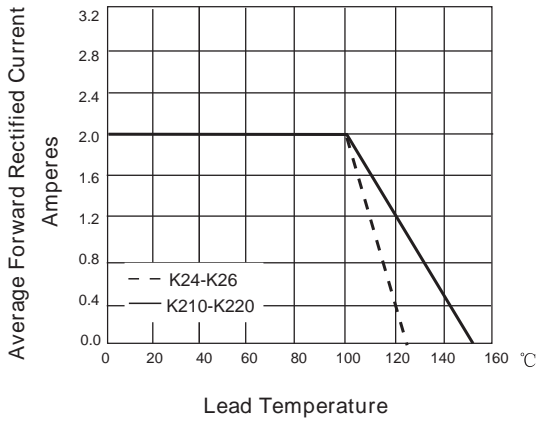


FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

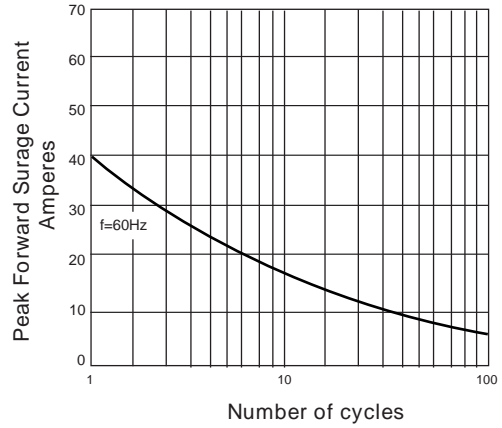


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

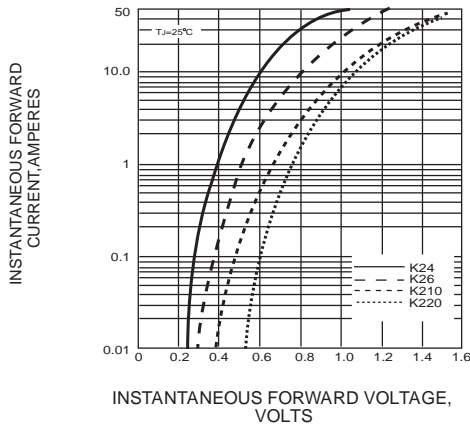


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

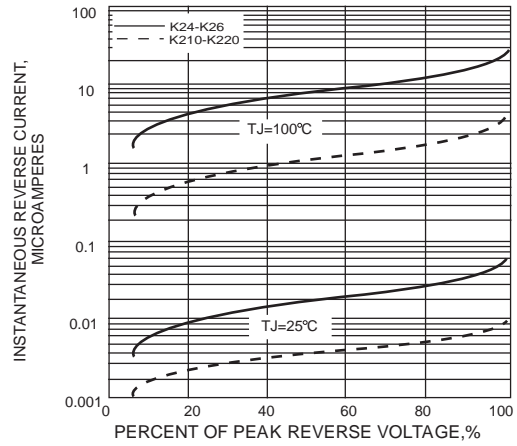
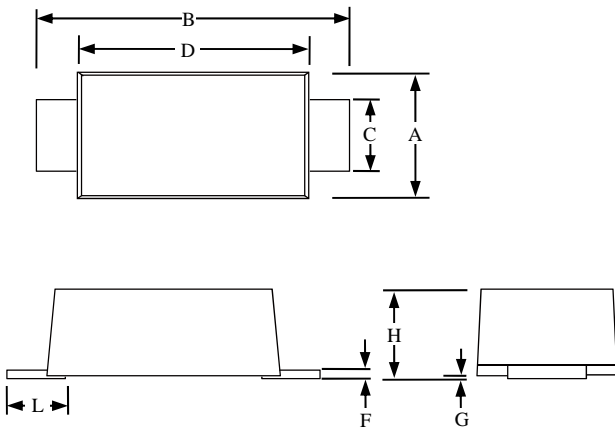


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS

## Package Outline Dimensions: SOD-123FL



SOD-123FL						
Dimension	Inches			Millimeters		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.059		0.079	1.5		2
B	0.134		0.154	3.4		3.9
C	0.028		0.047	0.7		1.2
D	0.098		0.114	2.5		2.9
F	0.002		0.01	0.05		0.26
G	-		0.004	-		0.1
H	0.037		0.053	0.95		1.35
L	0.014		0.035	0.35		0.9

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