

**特性/机械性能:**
**FEATURES/MECHANICAL DATA**

- ◆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
- ◆Case: JEDEC SOD-123FL molded plastic body
- ◆Terminals: Solderable per MIL-STD-750, Method 2026
- ◆Polarity: Color band denotes cathode end
- ◆Mounting Position: Any



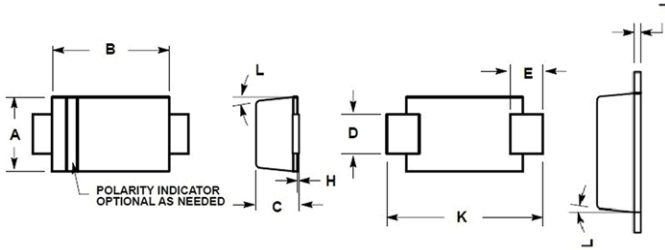
SOD-123

**最大额定值及电气特性**
**MAXIMUM RATINGS AND 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%.

参数名称	代码	K2	K4	K6	K10	单位	
Maximum repetitive peak reverse voltage	VRRM	20	40	60	100	V	
Maximum RMS voltage	VRMS	14	28	42	70	V	
Maximum DC blocking voltage	VDC	20	40	60	100	V	
Maximum average forward rectified current	I(AV)	1.0				A	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30				A	
Maximum instantaneous forward voltage at=1.0A	VF	0.45	0.60	0.70	0.85	V	
Maximum DC reverse current TA=25°C	IR	0.5				mA	
at rated DC blocking voltage TA=125°C		10.0	5.0				
Typical junction capacitance (NOTE 1)	CJ	110		80		PF	
Operating junction temperature range	TJ	-65~+125			-65~+150		°C
Storage temperature range	TSTG	-65~+150				°C	

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

**产品外形尺寸:**
**Product appearance size**


DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	1.50	1.80	0.059	0.071
B	2.50	2.90	0.098	0.114
C	0.90	1.20	0.035	0.047
D	0.70	1.10	0.028	0.043
E	0.50	0.95	0.020	0.037
H	0.00	0.10	0.000	0.004
J	0.10	0.20	0.004	0.008
K	3.40	3.90	0.134	0.154
L	0°	8°	0°	8°

**特性曲线图:**
**RATINGS AND CHARACTERISTIC CURVES**

 AVERAGE FORWARD RECTIFIED CURRENT,  
 AMPERES

FIG. 1- FORWARD CURRENT DERATING CURVE

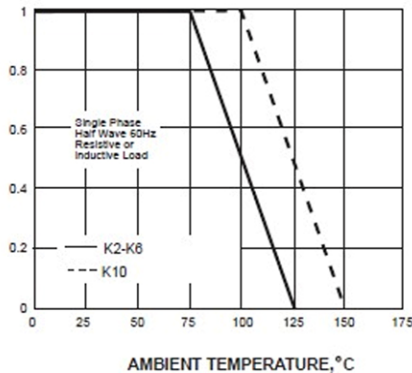
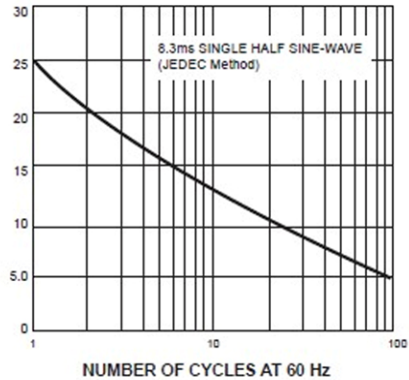

 PEAK FORWARD SURGE CURRENT,  
 AMPERES

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



INSTANTANEOUS FORWARD CURRENT, AMPERES

FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

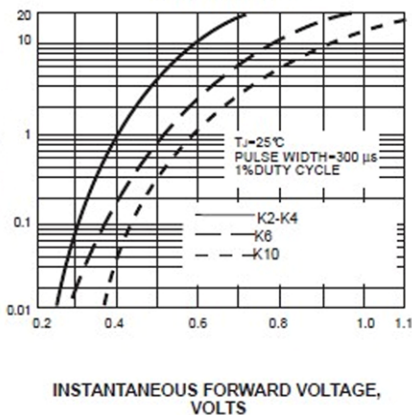

 INSTANTANEOUS REVERSE CURRENT,  
 MILLIAMPERES

FIG. 4-TYPICAL REVERSE CHARACTERISTICS

