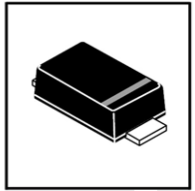


特性/机械性能: FEATURES/MECHANICAL DATA

- ◆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-123FL

最大额定值及电气特性 MAXIMUM RATINGS AND CHARACTERISTICS

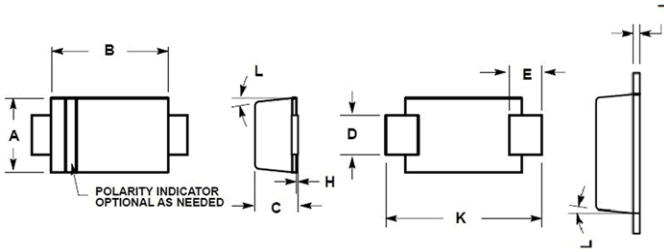
Ratings at 25°C ambient temperature unless otherwise specified.
 Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

参数名称	代码	76	单位
Maximum repetitive peak reverse voltage	VRRM	60	V
Maximum RMS voltage	VRMS	42	V
Maximum DC blocking voltage	VDC	60	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	0.70	V
Maximum DC reverse current TA=25°C	IR	0.5	mA
at rated DC blocking voltage TA=125°C		5.0	mA
Typical junction capacitance (NOTE 1)	CJ	80	PF
Operating junction temperature range	TJ	-65~+125	°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



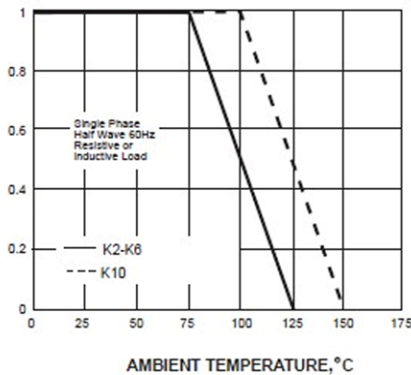
DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	1.50	1.80	0.059	0.071
B	2.50	2.90	0.098	0.114
C	0.90	1.20	0.035	0.047
D	0.70	1.10	0.028	0.043
E	0.50	0.95	0.020	0.037
H	0.00	0.10	0.000	0.004
J	0.10	0.20	0.004	0.008
K	3.40	3.90	0.134	0.154
L	0°	8°	0°	8°

特性曲线图:

RATINGS AND CHARACTERISTIC CURVES

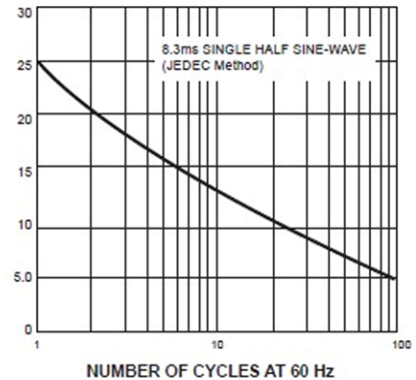
AVERAGE FORWARD RECTIFIED CURRENT,
AMPERES

FIG. 1- FORWARD CURRENT DERATING CURVE



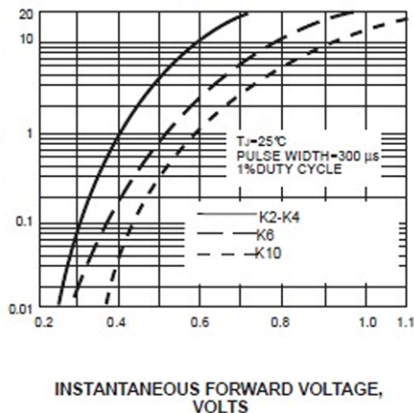
PEAK FORWARD SURGE CURRENT,
AMPERES

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

