K12 THRU K110

1.0 AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

FEATURES

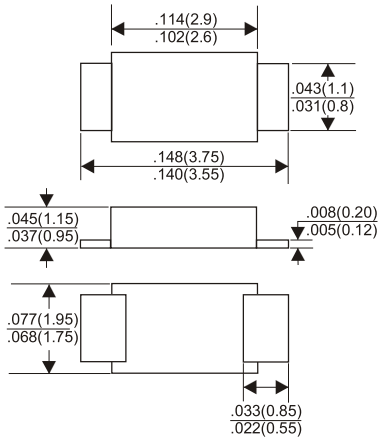
* Ideal for surface mount applications *
Easy pick and place
* Built-in strain relief
* Low forward voltage drop

VOLTAGE RANGE
20 to 100 Volts
CURRENT
1.0 Ampere

MECHANICAL DATA

* Case: Molded plastic
* Epoxy: UL 94V-0 rate flame retardant
* Metallurgically bonded construction
* Polarity: Color band denotes cathode end *
Mounting position: Any

SOD123FL



Dimensions in inches and (millimeters)

MARKING

Part Number	K12	K13	K14	K15	K16	K18	K19	K110
Marking	K12	K13	K14	K15	K16	K18	K19	K110

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25˚C ambient temperature uniess otherwies specified.
Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

TYPE NUMBER	K12	K13	K14	K15	K16	K18	K19	K110	UNITS
Maximum Recurrent Peak Reverse Voltage	20	30	40	50	60	80	90	100	V
Maximum RMS Voltage	14	21	28	35	42	56	63	70	V
Maximum DC Blocking Voltage	20	30	40	50	60	80	90	100	V
Maximum Average Forward Rectified Current See Fig. 1	1.0								A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	30								A
Maximum Instantaneous Forward Voltage at 1.0A	0.55			0.70		0.85			V
Maximum DC Reverse Current Ta=25˚C	0.2								mA
at Rated DC Blocking Voltage Ta=100˚C	10								mA
Typical Junction Capacitance (Note1)	110								pF
Typical Thermal Resistance R JA (Note 2)	80								˚C/W
Operating Temperature Range TJ	-65 —+125					-65 —+150			˚C
Storage Temperature Range TSTG	-65— +150								˚C

NOTES:

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

2. Thermal Resistance Junction to Ambient.

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RATING AND CHARACTERISTIC CURVES (K12 THRU K110)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

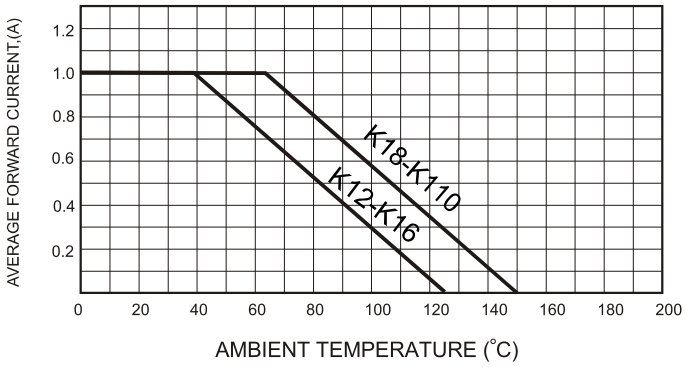


FIG.2-TYPICAL FORWARD CHARACTERISTICS

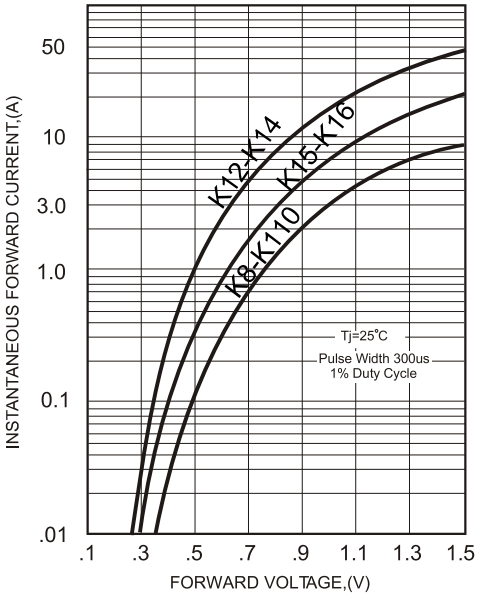


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

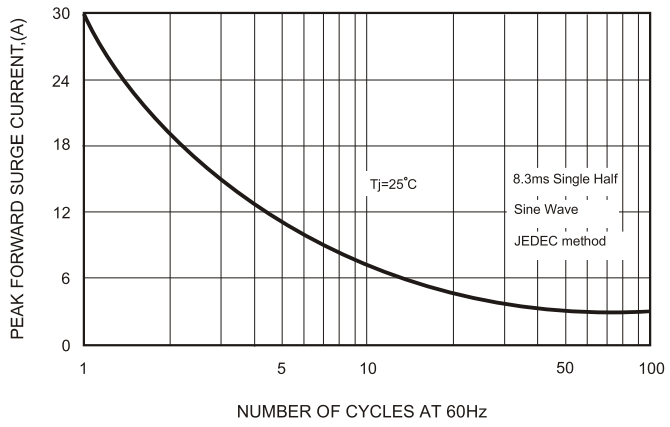


FIG.4-TYPICAL JUNCTION CAPACITANCE

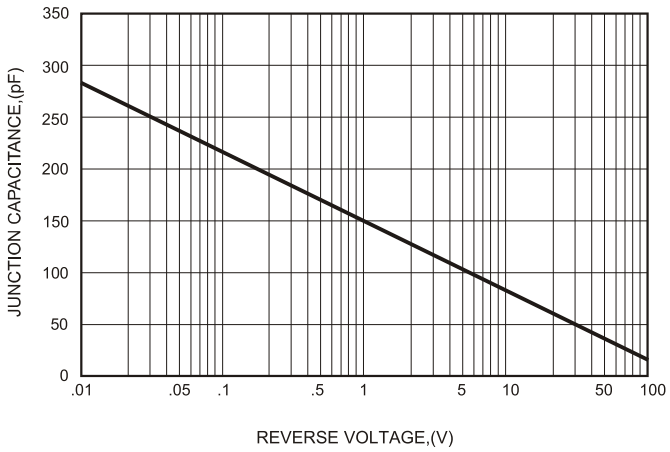
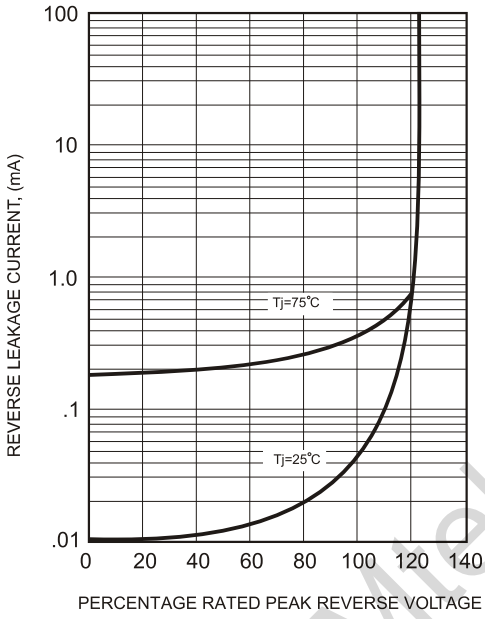


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



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