

FEATURES

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

MECHANICAL DATA

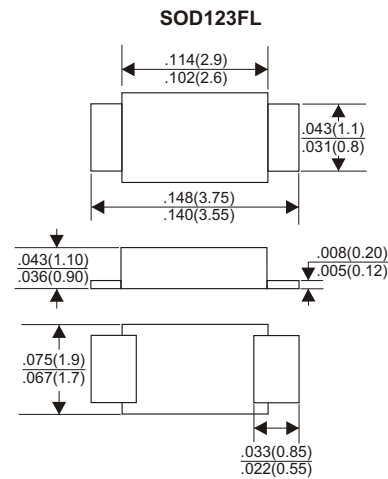
- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Metallurgically bonded construction
- * Polarity: Color band denotes cathode end
- * Mounting position: Any

VOLTAGE RANGE

20 to 100 Volts

CURRENT

1.0 Ampere



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

| TYPE NUMBER | K2 | K3 | K14 | K5 | K16 | K8 | K9 | 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 T _J | -65 — +125 | | | | -65 — +150 | | | | °C | |
| Storage Temperature Range T _{STG} | -65 — +150 | | | | | | | | °C | |

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance Junction to Ambient.

RATING AND CHARACTERISTIC CURVES (K2 THRU K110)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

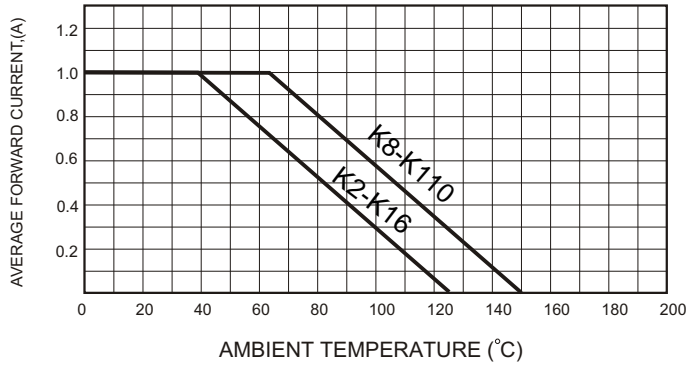


FIG.2-TYPICAL FORWARD CHARACTERISTICS

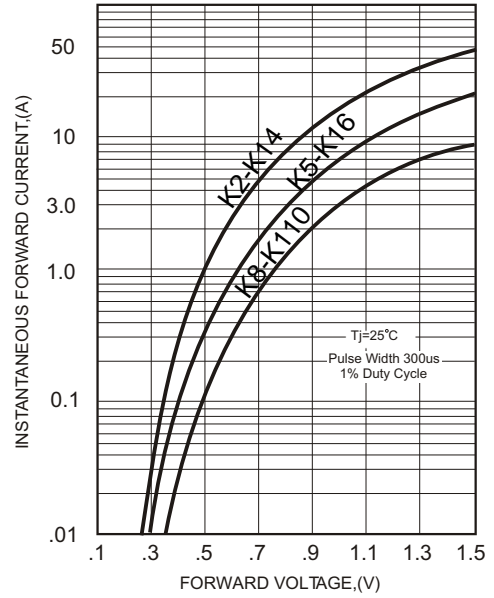


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

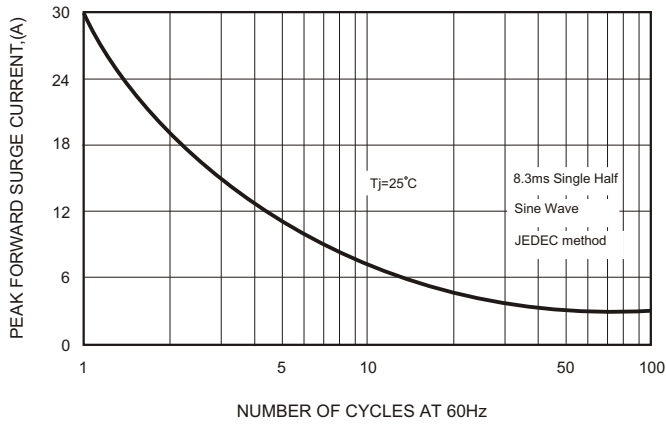


FIG.4-TYPICAL JUNCTION CAPACITANCE

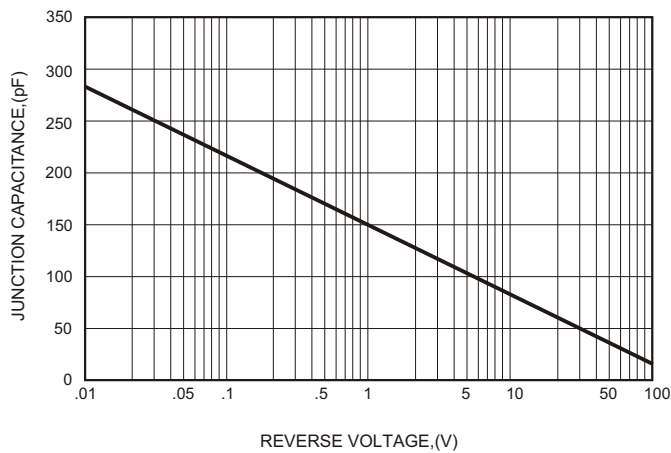


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

