



安徽富信半导体科技有限公司

ANHUI FOSAN SEMICONDUCTOR TECHNOLOGY CO., LTD.

DSK12W THRU DSK110W 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

MECHANICAL DATA

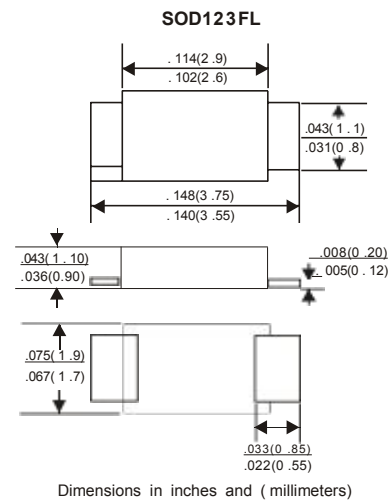
- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Metallurgically bonded construction
- * Polarity: Color band denotes cathode end
- * Mounting position: Any

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 | DSK12W | DSK13W | DSK14W | DSK15W | DSK16W | DSK18W | DSK19W | DSK110W | 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 | 1.0 | | | | | | | | A |
| See Fig. 1 | | | | | | | | | 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 .0 A | 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 | | | | | | | | p F |
| 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.

RATING AND CHARACTERISTIC CURVES (DSK12W THRU DSK110W)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

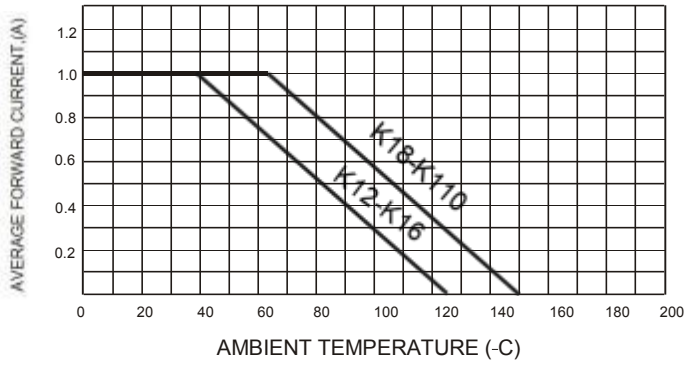


FIG.2-TYPICAL FORWARD CHARACTERISTICS

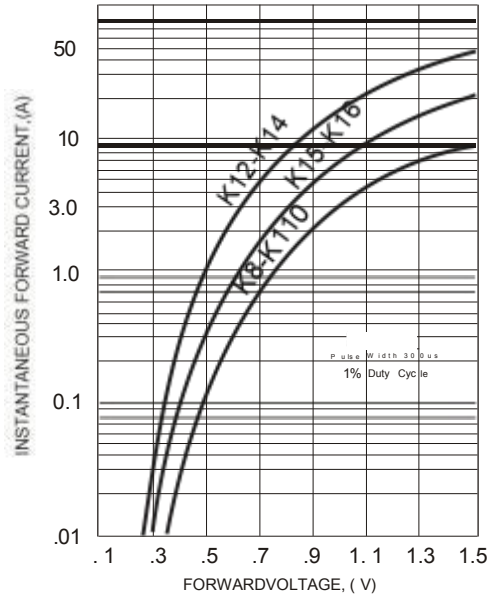


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

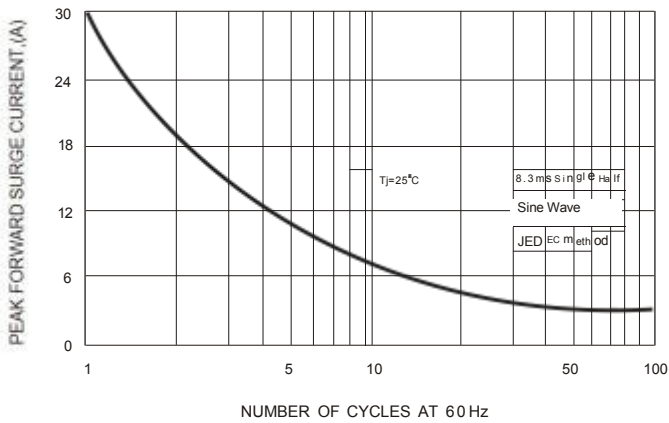


FIG.4-TYPICAL JUNCTION CAPACITANCE

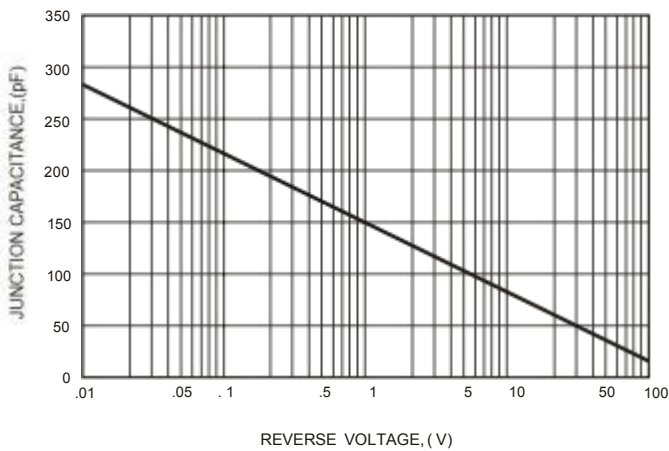
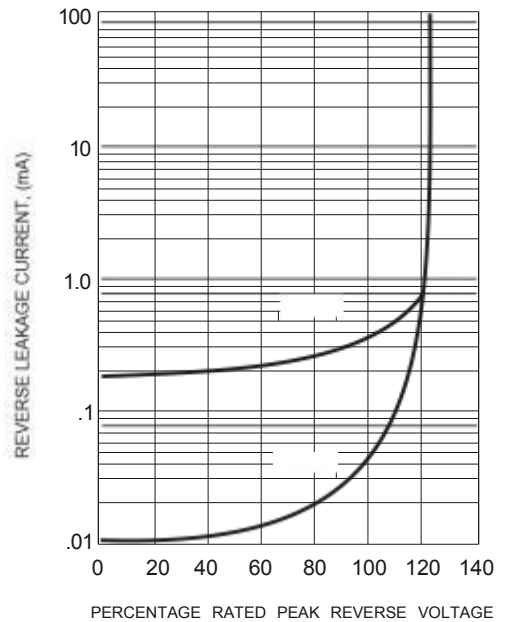


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



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