

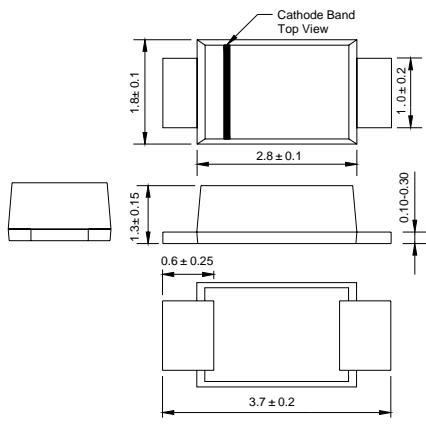


DSK12 THRU DSK120

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 200 Volts Forward Current - 1.0 Ampere

SOD-123FL



Dimensions in millimeters

FEATURES

- 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, 0.375" (9.5mm) lead length,
5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC SOD-123FL molded plastic body

Terminals: Solderable per MIL-STD-750,
Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.0007 ounce, 0.02 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

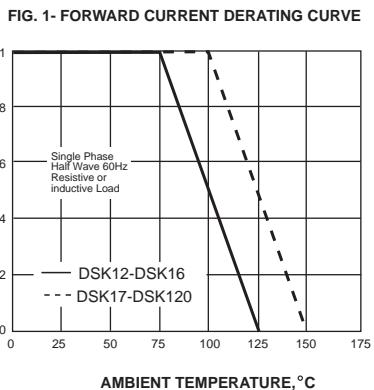
Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

| MDD Catalog Number | SYMBOLS | DSK12 K12 | DSK13 K13 | DSK14 K14 | DSK15 K15 | DSK16 K16 | DSK17 K17 | DSK18 K18 | DSK19 K19 | DSK110 K110 | DSK115 K115 | DSK120 K120 | UNITS |
|--|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|----------------|----------------|-------|
| Maximum repetitive peak reverse voltage | V _{RRM} | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 150 | 200 | VOLTS |
| Maximum RMS voltage | V _{RMS} | 14 | 21 | 28 | 35 | 42 | 49 | 56 | 63 | 70 | 105 | 140 | VOLTS |
| Maximum DC blocking voltage | V _{DC} | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 150 | 200 | VOLTS |
| Maximum average forward rectified current | I _(AV) | | | | | | | 1.0 | | | | | Amp |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) | I _{FSM} | | | | | | | 25.0 | | | | | Amps |
| Maximum instantaneous forward voltage at 1.0A | V _F | | 0.55 | | 0.70 | | | 0.85 | | 0.95 | | | Volts |
| Maximum DC reverse current TA=25°C at rated DC blocking voltage TA=100°C | I _R | | | | 0.5 | | | | | 0.2 | | | mA |
| Typical junction capacitance (NOTE 1) | C _J | | 110 | | | | | 80 | | | | | pF |
| Operating junction temperature range | T _J | | -65 to +125 | | | | | -65 to +150 | | | | | °C |
| Storage temperature range | T _{STG} | | | | -65 to +150 | | | | | | | | °C |

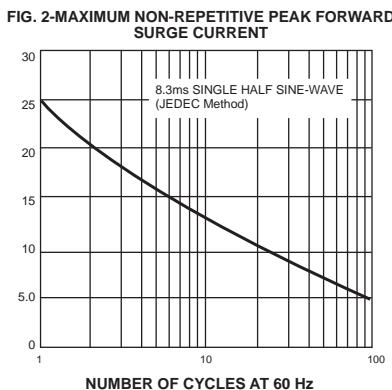
Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

RATINGS AND CHARACTERISTIC CURVES DSK12 THRU DSK120

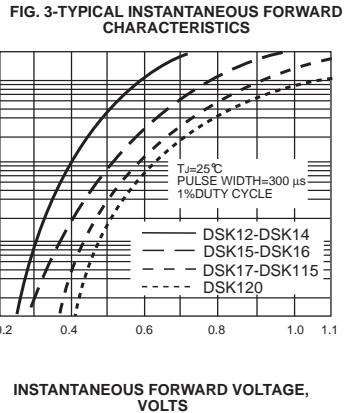
AVERAGE FORWARD RECTIFIED CURRENT,
AMPERES



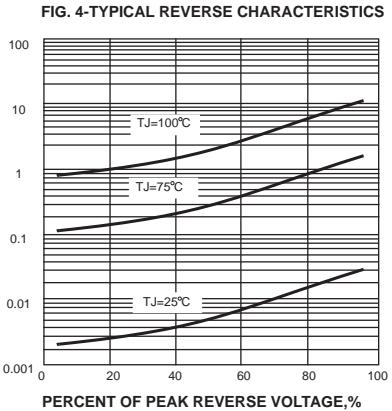
PEAK FORWARD SURGE CURRENT,
AMPERES



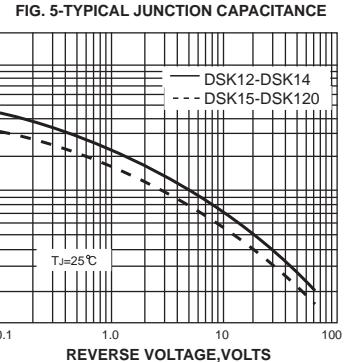
INSTANTANEOUS FORWARD
CURRENT, AMPERES



INSTANTANEOUS REVERSE CURRENT,
MILLIAMPERES



JUNCTION CAPACITANCE, pF



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