

Silicon Diode

1N6482

600V / 1A

DATASHEET

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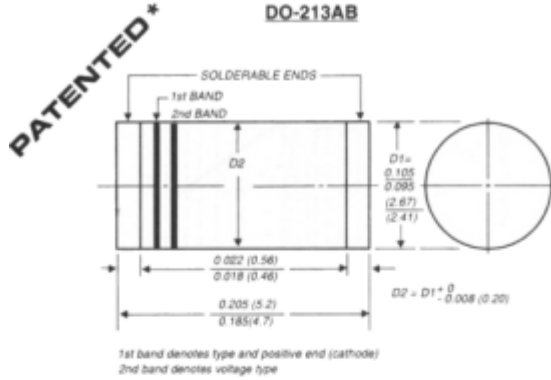
OEM – General Semiconductor

Source: General Semiconductor Databook 1998

1N6478 THRU 1N6484

SURFACE MOUNT GLASS PASSIVATED JUNCTION RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current - 1.0 Ampere



FEATURES

- ◆ Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- ◆ For surface mount applications
- ◆ High temperature metallurgically bonded construction
- ◆ Glass passivated cavity-free junction
- ◆ Capable of meeting environmental standards of MIL-S-19500
- ◆ High temperature soldering guaranteed: 450°C/5 seconds at terminals. Complete device submersible temperature of 265°C for 10 seconds in solder bath



MECHANICAL DATA

Case: JEDEC DO-213AB molded plastic over glass body
Terminals: Plated terminals, solderable per MIL-STD-750, Method 2026

Polarity: Two bands indicate cathode end - 1st band denotes device type and 2nd band denotes repetitive peak reverse voltage rating

Mounting Position: Any

Weight: 0.0046 ounce, 0.116 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

| Standard recovery time device: 1st band is White | SYMBOLS | 1N 6478 | 1N 6479 | 1N 6480 | 1N 6481 | 1N 6482 | 1N 6483 | 1N 6484 | UNITS |
|---|--------------|---------------|---------|---------|---------|---------|---------|---------|-------|
| Polarity color bands (2nd Band) | | Gray | Red | Orange | Yellow | Green | Blue | Violet | |
| * Maximum repetitive peak reverse voltage | VRRM | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | Volts |
| Maximum RMS voltage | VRMS | 35 | 70 | 140 | 280 | 420 | 560 | 700 | Volts |
| * Maximum DC blocking voltage | VDC | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | Volts |
| * Maximum average forward rectified current at | I(AV) | 1.0 | | | | | | | Amp |
| * Peak forward surge current 8.3ms single half sine-wave superimposed on rated load at TA=75°C (JEDEC Method) | IFSM | 30.0 | | | | | | | Amps |
| * Maximum instantaneous forward voltage at 1.0A TA=25°C TA=75°C | VF | 1.1 1.0 | | | | | | | Volts |
| * Maximum DC reverse current at rated DC blocking voltage TA=25°C TA=125°C | IR | 10.0 200.0 | | | | | | | µA |
| * Maximum full load reverse current, full cycle average at TA=75°C | IR(AV) | 100.0 | | | | | | | µA |
| * Typical junction capacitance (NOTE 1) | CJ | 8.0 | | | | | | | pF |
| * Maximum thermal resistance (NOTE 2) (NOTE 3) | REJA REJT | 50.0 20.0 | | | | | | | °C/W |
| * Operating junction and storage temperature range | TJ, TSTG | -65 to +175 | | | | | | | °C |

NOTES:

- (1) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts
 - (2) Thermal resistance from junction to terminal, 0.24 x 0.24" (6.0 x 6.0mm) copper pads to each terminal
 - (3) Thermal resistance from junction to ambient, 0.24 x 0.24" (6.0 x 6.0mm) copper pads to each terminal
- * JEDEC Registered Values

RATINGS AND CHARACTERISTIC CURVES 1N6478 THRU 1N6484

