

R1200 THRU R2000

 VOLTAGE RANGE
 CURRENT

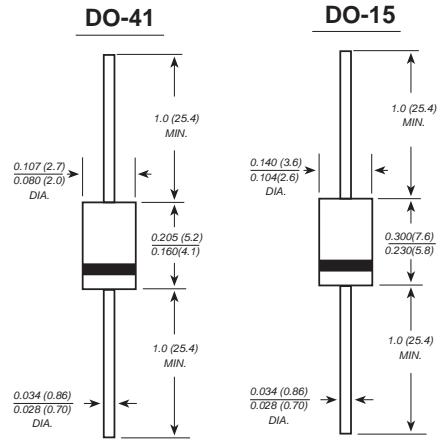
 200 to 2000 Volts
 0.5/0.2 Ampere

FEATURES

- The plastic package carries Underwriters Laboratory
- Flammability Classification 94V-0
- Construction utilizes void-free
- molded plastic technique
- Low reverse leakage
- 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 DO-41/DO-15 molded plastic body
- Terminals : Plated axial leads, solderable per MIL-STD-750, Method 2026
- Polarity : Color band denotes cathode end
- Mounting Position : Any
- Weight : 0.012 ounce, 0.33 grams(DO-41)
0.014 ounce, 0.40 grams(DO-15)


Dimensions in inches and (millimeters)

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%.

| | SYMBOLS | R1200 | R1500 | R1800 | R2000 | UNITS |
|---|--------------------------------|-------|-------------|-------|-------|-------|
| Maximum repetitive peak reverse voltage | V _{RRM} | 1200 | 1500 | 1800 | 2000 | VOLTS |
| Maximum RMS voltage | V _{RMS} | 840 | 1050 | 1260 | 1400 | VOLTS |
| Maximum DC blocking voltage | V _{DC} | 1200 | 1500 | 1800 | 2000 | VOLTS |
| Maximum average forward rectified current 0.375" (9.5mm) lead length (see fig.1) | I _(AV) | | 0.5 | | 0.2 | Amp |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) | I _{FSM} | | 30.0 | | | Amps |
| Maximum instantaneous forward voltage at 0.5/0.2 A | V _F | | 2.0 | 3.0 | | Volts |
| Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =100°C | I _R | | 5.0 | 50 | | µA |
| Typical junction capacitance (NOTE 1) | C _J | | 15.0 | | | pF |
| Typical thermal resistance (NOTE 2) | R _{θJA} | | 50.0 | | | °C/W |
| Operating junction and storage temperature range | T _{J,T_{STG}} | | -65 to +175 | | | °C |

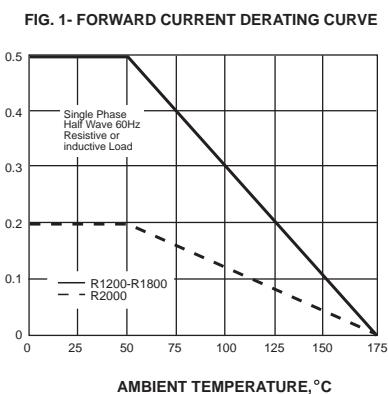
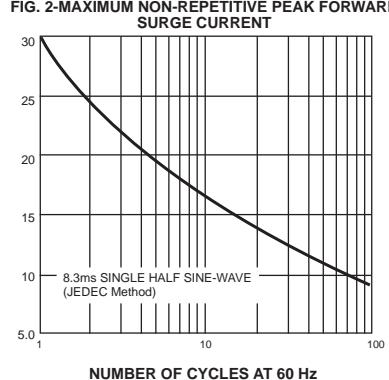
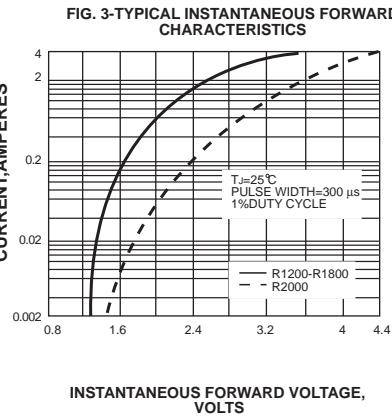
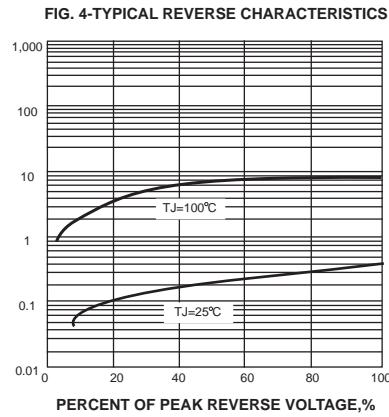
Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

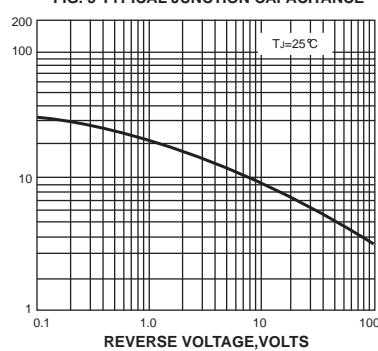
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 200 to 2000 Volts
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 AVERAGE FORWARD RECTIFIED CURRENT,
 AMPERES

 PEAK FORWARD SURGE CURRENT,
 AMPERES

 INSTANTANEOUS FORWARD
 CURRENT, AMPERES

 INSTANTANEOUS REVERSE CURRENT,
 MICROAMPERES


JUNCTION CAPACITANCE, pF


 TRANSIENT THERMAL IMPEDANCE,
 °C/W
