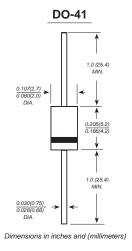
FAST RECOVERY RECTIFIERS



FEATURES

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Fast switching for high efficiency
- 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 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

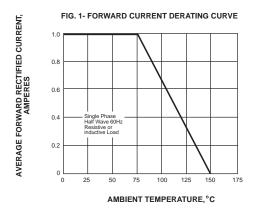
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

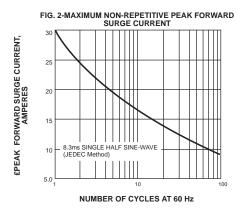
Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load for capacitive load current derate by 20%.

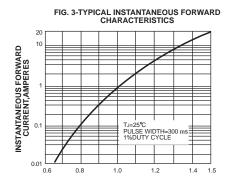
| • • | | | | | | | | | |
|--|----------------|-----------------------|-----------|-----------|-----------|-----------|-----------|-----------|-------|
| | SYMBOLS | FR 101 | FR 102 | FR 103 | FR 104 | FR 105 | FR 106 | FR 107 | UNITS |
| Maximum repetitive peak reverse voltage | Vrrm | 50 | 100 | 200 | 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 | I(AV) | 1.0 | | | | | | | Amp |
| 0.375"(9.5mm) lead length at Ta=75℃ | I(AV) | | | | | | | | |
| Peak forward surge current | | | | | | | | | |
| 8.3ms single half sine-wave superimposed on | IFSM | I _{FSM} 30.0 | | | | | | | Amps |
| rated load (JEDEC Method) | | | | | | | | | |
| Maximum instantaneous forward voltage at 1.0A | VF | 1.3 | | | | | | | Volts |
| Maximum DC reverse current Ta=25°C | | 5.0 50.0 | | | | | | | uA |
| at rated DC blocking voltage Ta=100°C | l _R | | | | | | | | |
| Maximum reverse recovery time (NOTE 1) | trr | | 15 | 50 | | 250 | 50 | 00 | ns |
| Typical junction capacitance (NOTE 2) | Cı | 15.0 | | | | | | pF | |
| Typical thermal resistance (NOTE 3) | RqJA | 50.0 | | | | | | | °C/W |
| Operating junction and storage temperature range | Тл,Твтс | -65 to +150 | | | | | | | °C |
| | | | | | | | | | |

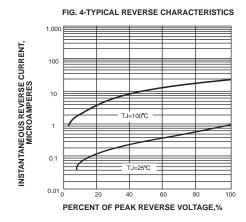
Note: 1. Reverse recovery condition IF=0.5A, IR=1.0A, Irr=0.25A

2.Measured at 1MHz and applied reverse voltage of 4.0V D.C. 3.Thermal resistance from junction to ambient at 0.375" (9.5mm)lead length, P.C.B. mounted











200

0.1

JUNCTION CAPACITANCE, pF

