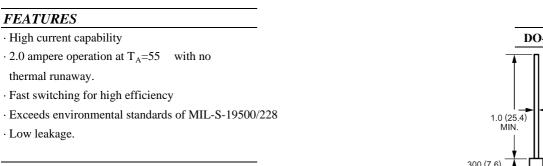
FR201 THRU FR207

| FAST RECOVERY RECTIFIER |
|-------------------------|
| REVERSE VOLTAGE: |

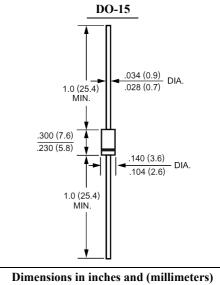
FORWARD CURRENT:

50 to 1000 VOLTS 2.0 AMPERE



MECHANICAL DATA

Case: Molded plastic, DO-15 Epoxy: UL 94V-O rate flame retardant Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed Polarity: Color band denotes cathode end Mounting position: Any Weight: 0.015ounce, 0.4gram



Maximum Ratings and Electrical Characteristics

Ratings at 25 ambient temperature unless otherwise specified.

Single phase, half wave, $60H_Z$, resistive or inductive load.

For capacitive load, derate current by 20%.

| | Symbols | FR201 | FR202 | FR203 | FR204 | FR205 | FR206 | FR207 | Units |
|--|-----------------------|-------------|-------|-------|-------|-------|-------|-------|-------|
| Maximum Recurrent Peak Reverse Voltage | V _{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | Volts |
| Maximum RMS Voltage | V _{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | Volts |
| Maximum DC Blocking Voltage | V _{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | Volts |
| Maximum Average Forward Rectified Current | T | 2.0 | | | | | | | |
| .375"(9.5mm) Lead Length at T _A =55 | I _(AV) | | | | Атр | | | | |
| Peak Forward Surge Current, | | | | | | | | | |
| 8.3ms single half-sine-wave | I _{FSM} | 70 | | | | | | | Amp |
| superimposed on rated load (JEDEC method) | | | | | | | | | |
| Maximum Forward Voltage | V | 1.3 | | | | | | | Volts |
| at 2.0A DC and 25 | V _F | | | | | | | | |
| Maximum Reverse Current at T _A =25 | Т | | | | 5.0 | | | | |
| at Rated DC Blocking Voltage T _A =100 | I _R | 500 | | | | | | | uAmp |
| Typical Junction Capacitance (Note 1) | CJ | 35 | | | | | | | pF |
| Typical Thermal Resistance (Note 2) | R _{0JA} | 22 | | | | | | | /W |
| Maximum Reverse Recovery Time (Note 3) | T _{RR} | | 1: | 50 | | 250 | 5 | 00 | nS |
| Operating and Storage Temperature Range | T _J , Tstg | -55 to +150 | | | | | | | |

NOTES:

1- Measured at 1 $\ensuremath{\text{MH}}_{Z}$ and applied reverse voltage of 4.0 VDC.

2- Thermal Resistance From Junction to Ambient 0.375"(9.5mm) lead length P.C.B. Mounted.

3- Reverse Recovery Test Conditions : $I_{F} \!\!=\!\!.5A$, $I_{R} \!\!=\!\!1A$, $I_{RR} \!\!=\!\!.25A.$



RATINGS AND CHARACTERISTIC CURVES

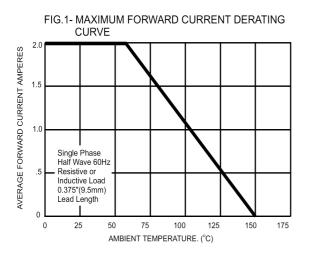


FIG.3- TYPICAL FORWARD CHARACTERISTICS

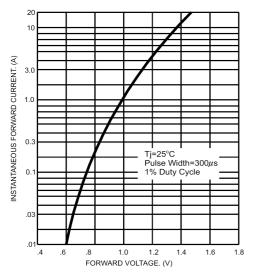


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT € 105 PEAK FORWARD SURGE CURRENT. 90 75 8.3ms Single Half Sine-Wave (JEDEC Method) 60 45 30 15 Г 0 1 2 5 10 20 50 100 NUMBER OF CYCLES AT 60Hz

FIG.4- TYPICAL JUNCTION CAPACITANCE

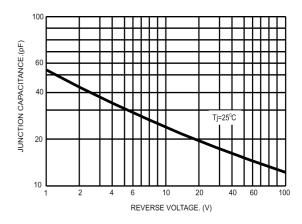


FIG.5- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

