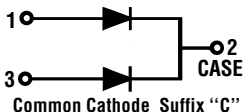
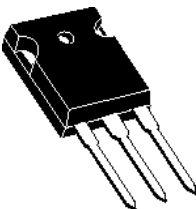
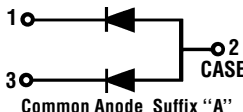
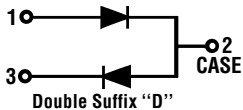
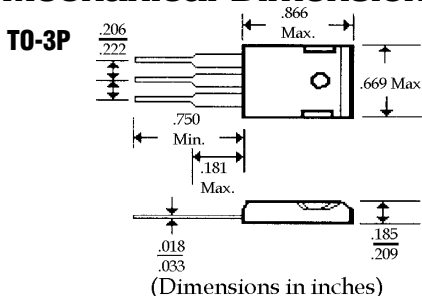


UFP30C05~30C60

Description



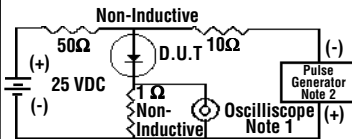
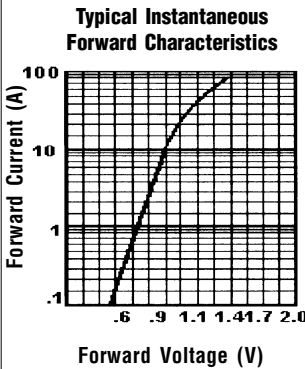
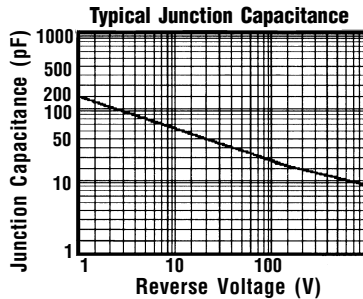
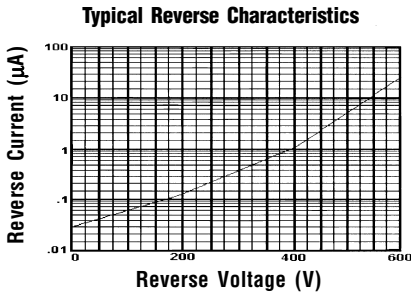
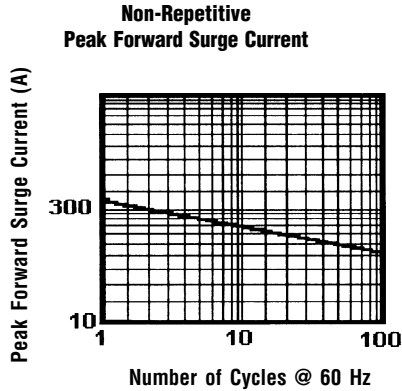
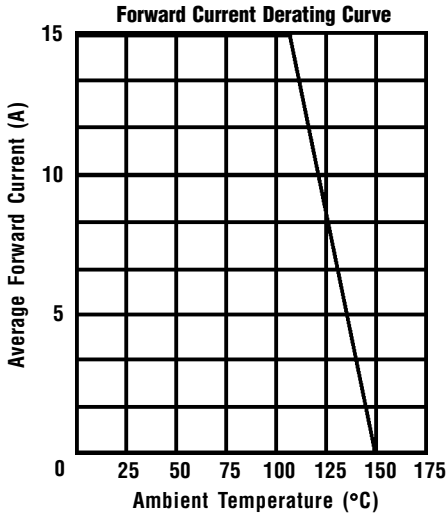
Mechanical Dimensions



Features

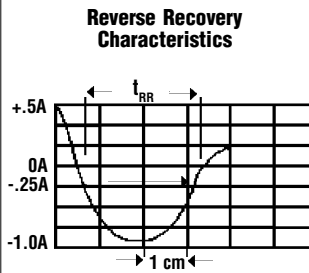
- LOW FORWARD VOLTAGE
- HIGH SURGE CAPABILITY
- SUPERFAST RECOVERY TIME
- MEETS UL SPECIFICATION 94V-0

| | UFP30C05...30C60 Series | | | | | | | | Units |
|--|-------------------------|-----|-----|-----|------------|-----|-----|-----|------------------|
| | 05 | 10 | 15 | 20 | 30 | 40 | 50 | 60 | |
| Maximum Ratings | | | | | | | | | |
| Peak Repetitive Reverse Voltage... V_{RRM} | 50 | 100 | 150 | 200 | 300 | 400 | 500 | 600 | Volts |
| Working Peak Reverse Voltage... V_{RWM} | 50 | 100 | 150 | 200 | 300 | 400 | 500 | 600 | Volts |
| DC Blocking Voltage... V_{DC} | 50 | 100 | 150 | 200 | 300 | 400 | 500 | 600 | Volts |
| RMS Reverse Voltage... $V_{R(rms)}$ | 35 | 70 | 105 | 140 | 210 | 280 | 350 | 420 | Volts |
| Average Forward Rectified Current... $I_{F(av)}$ $T_C = 150^\circ\text{C}$ @ Rated V_{DC} | | | | | 15 | | | | Amps |
| | | | | | 30 | | | | Amps |
| Repetitive Peak Forward Surge Current... I_{FM} @ Rated V_{DC} , Square Wave, 20 kHz, $T_C = 150^\circ\text{C}$ | | | | | 30 | | | | Amps |
| Non-Repetitive Peak Forward Surge Current... I_{FSM} @ Rated Load Cond., 1/2 Wave, Single Phase, 60Hz | | | | | 300 | | | | Amps |
| Operating & Storage Temperature Range... T_J, T_{STRG} | | | | | -65 to 175 | | | | $^\circ\text{C}$ |
| Electrical Characteristics | | | | | | | | | |
| Maximum Forward Voltage... V_F @ $I_F = 15$ Amps, PW = 300 μs | | | | | | | | | Volts |
| | | | | | | | | | Volts |
| Maximum DC Reverse Current... I_R @ Rated DC Blocking Voltage | | | | | | 500 | | | μAmps |
| | | | | | | 10 | | | μAmps |
| Maximum Reverse Recovery Time... t_{RR} $I_F = 1.0$ Amp, di/dt = 50 Amps/ μs | | | | | | | 50 | | ns |



Notes:

1. Rise Time = 7 ns Max.
Impedance = 1 megohm, 22 pF
2. Rise Time = 10 ns Max.
Source Impedance = 50 Ohms



Ratings at 25 Deg. C ambient temperature unless otherwise specified.

Single Phase Half Wave, 60 Hz Resistive or Inductive Load.

For Capacitive Load, Derate Current by 20%.

Time Base Set @ 50/100ns/cm