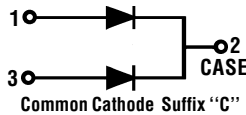
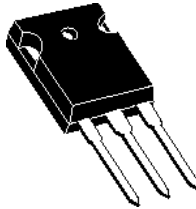
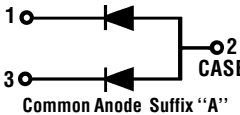
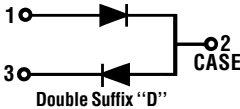
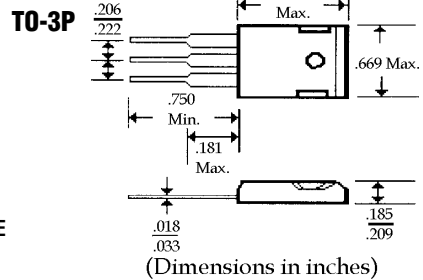


VFP30C05...30C60

Description



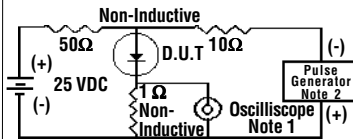
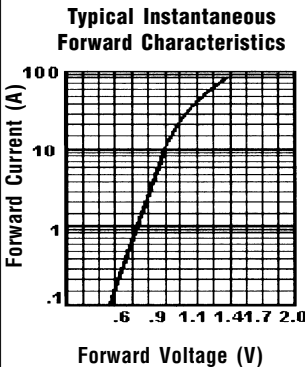
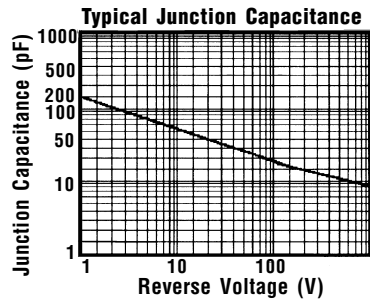
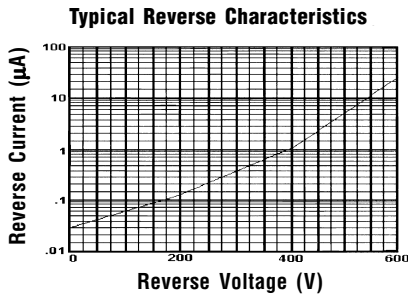
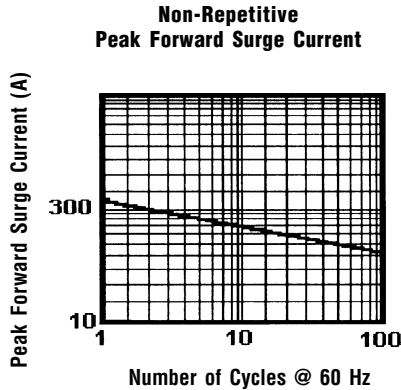
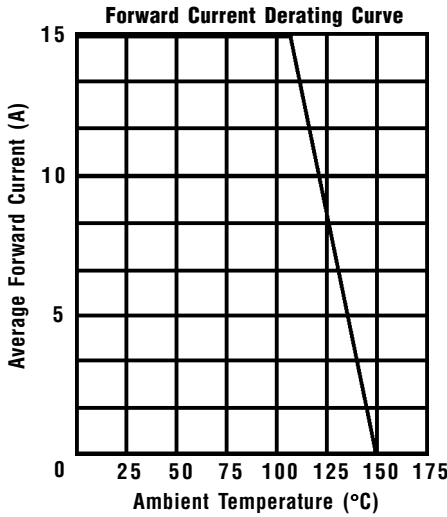
Mechanical Dimensions



Features

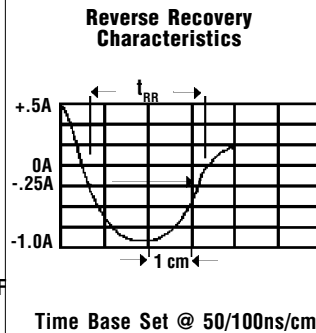
- **LOW FORWARD VOLTAGE**
- **HIGH SURGE CAPABILITY**
- **ULTRAFAST RECOVERY GPP DIE**
- **MEETS UL SPECIFICATION 94V-0**

VFP30C05---30C60									Units
Maximum Ratings	05	10	15	20	30	40	50	60	
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... $I_{F(av)}$ $T_C = 150^\circ C$ @ Rated V_{DC}					15				Amps
					30				Amps
Repetitive Peak Forward Surge Current... I_{FM} @ Rated V_{DC} , Square Wave, 20 kHz, $T_C = 150^\circ C$					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				$^\circ C$
Electrical Characteristics									
Maximum Forward Voltage... V_F @ $I_F = 15$ Amps, $PW = 300\mu s$	$T_C = 150^\circ C$	< 1.0 > < ... 1.1 ... > < 1.3 >							Volts
	$T_C = 25^\circ C$	< 1.4 > < ... 1.4 ... > < 1.6 >							Volts
Maximum DC Reverse Current... I_R @ Rated DC Blocking Voltage	$T_C = 150^\circ C$	< 250 > < 500 >							μ Amps
	$T_C = 25^\circ C$	< 5.0 > < 10 >							μ Amps
Maximum Reverse Recovery Time... t_{RR} $I_F = 1.0$ Amp, $di/dt = 50$ Amps/ μs		< 50 > < 75 ... >							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%.