



**HIGH VOLTAGE**  
POWER SYSTEMS, INC.

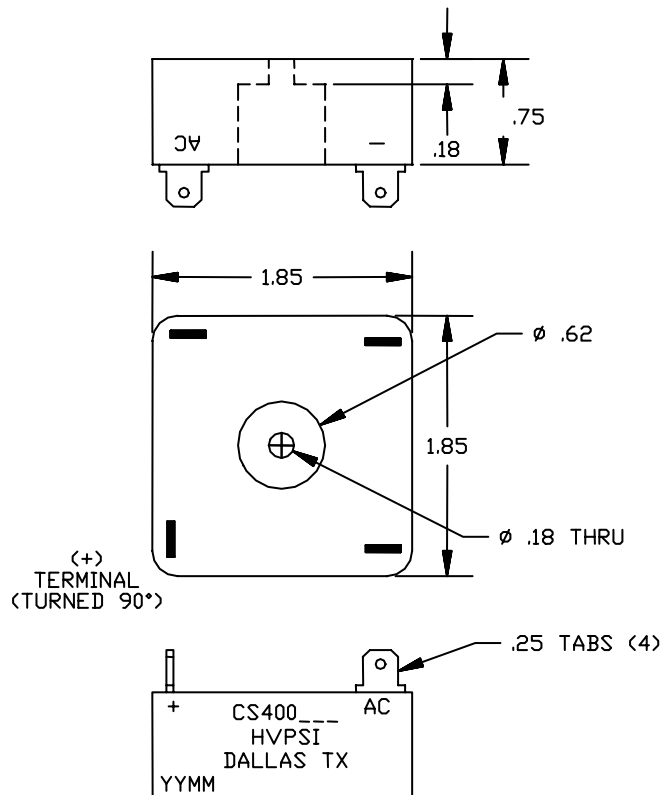
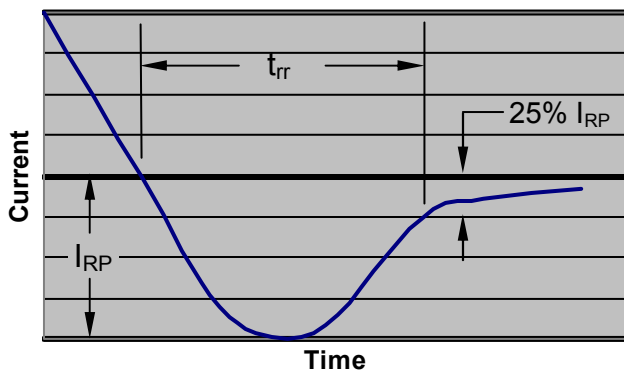
# CS400 Series

Single-Phase, High Voltage Bridge Rectifiers

## FEATURES

- Ratings to 10 kV
- Controlled Avalanche Junctions
- High Surge Capability
- Case Material Rated UL94V-1
- Epoxy Rated UL94V-0

$t_{rr}$  Definition



## Maximum Ratings & Characteristics

	SYM.	STANDARD RECOVERY CS400S__					FAST RECOVERY CS400F__					
		S2	S4	S6	S8	S10	F2	F4	F6	F8	F10	
ELECTRICAL RATINGS, T = 25°C												
Repetitive Peak Reverse Voltage, and Continuous Reverse Voltage	$V_{RRM}, V_R$	2	4	6	8	10	2	4	6	8	10	kV
Average Forward Current	$I_o$	1500	650	650	500	500	650	450	330	300	250	mA
Peak Surge Current, Non-Repetitive, 1/2 cycle, 60 Hz	$I_{FSM}$	20					15					A
Storage and Operating Temperatures	$T_{STG}, T_J$	- 55 to 150					- 55 to 150					°C

### ELECTRICAL CHARACTERISTICS, T = 25°C

Maximum Instantaneous Forward Voltage, $I_f = 0.100$ Amp	$V_{FM}$	3.0	9.0	9.0	15.0	15.0	7.0	10.0	16.0	16.0	20.0	V
Maximum Reverse Current at Rated $V_R$	$I_{RM}$	1.0					1.0					$\mu$ A
Maximum Reverse Recovery Time $I_F = 1$ A, $di/dt = -20$ A/Sec, 75% Recovery	$t_{rr}$	2.5 Typ.					0.300					$\mu$ S