



## INDUSTRIAL PRESS-FIT POWER RECTIFIERS TYPE 25A

### Features

- High Surge Capability
- High Voltage Available
- Designed For A Wide Range of Application
- Leaded Version Available
- Types Up to 1000V  $V_{RRM}$
- Open junction

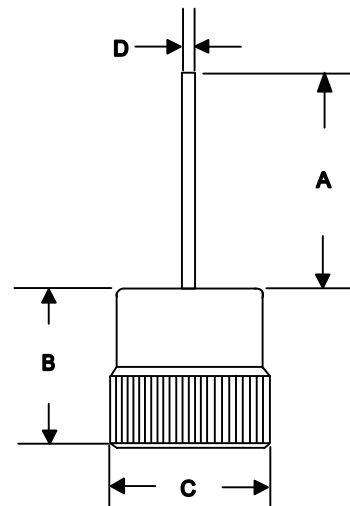
### 25Amp Rectifier 50-1000 Volts

### Maximum Ratings

Operating Temperature:  $-65^{\circ}\text{C}$  to  $+190^{\circ}\text{C}$   
 Storage Temperature:  $-65^{\circ}\text{C}$  to  $+190^{\circ}\text{C}$

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
PFL2501(R)	50V	35V	50V
PFL2502(R)	100V	70V	100V
PFL2503(R)	200V	140V	200V
PFL2504(R)	400V	280V	400V
PFL2505(R)	600V	420V	600V
PFL2506(R)	800V	560V	800V
PFL2507(R)	1000V	700V	1000V

### PRESS - FIT LUCAS



### Electrical Characteristics @ 25 °C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	25A	$T_C = 100^{\circ}\text{C}$
Peak Forward Surge Current	$I_{FSM}$	400A	8.3ms, half sine
Maximum Instantaneous Forward Voltage *	$V_F$	1.0V	$I_{FM} = 25A;$ $T_J = 25^{\circ}\text{C}$
Maximum Instantaneous DC Reverse Current At Rated DC Blocking Voltage	$I_R$	10uA 500uA	$T_J = 25^{\circ}\text{C}$ $T_J = 150^{\circ}\text{C}$
Maximum thermal resistance, junction to case	$R_{\theta jc}$	1.2 °C /w	

#### Notes:

- Standard Polarity: Lead is Cathode
- Reverse Polarity: Lead is Anode

DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.834	0.857	21.19	21.78	
B	0.336	0.343	8.53	8.70	
C	0.398	0.400	10.11	10.16	
D	0.050	0.051	1.29	1.30	

\*Pulse Test: Pulse Width 300 usec, Duty Cycle 2%



FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

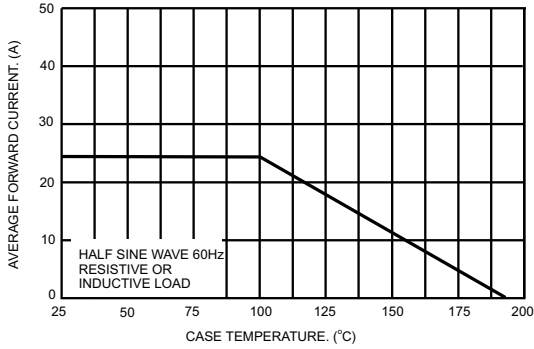


FIG.2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

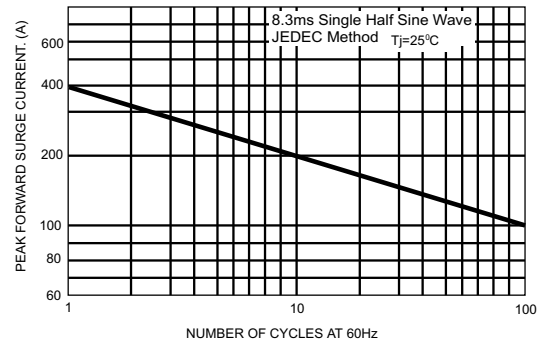


FIG.3- TYPICAL FORWARD CHARACTERISTICS

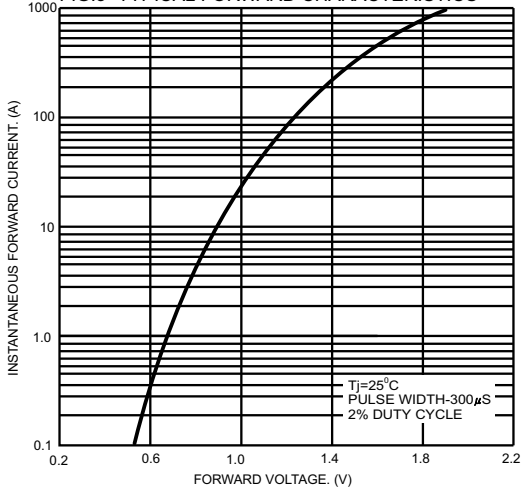


FIG.4- TYPICAL REVERSE CHARACTERISTICS

