



**INDUSTRIAL PRESS-FIT POWER RECTIFIERS TYPE 50A**

**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

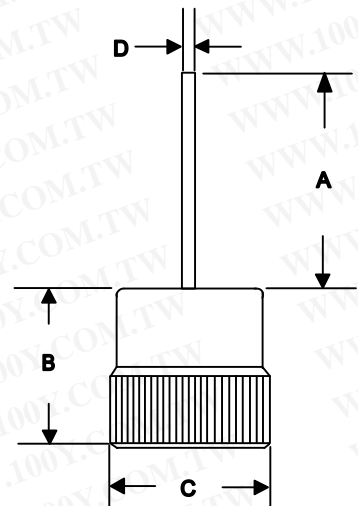
**50Amp Rectifier  
50-1000 Volts**

**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
PFL5001(R)	50V	35V	50V
PFL5002(R)	100V	70V	100V
PFL5003(R)	200V	140V	200V
PFL5004(R)	400V	280V	400V
PFL5005(R)	600V	420V	600V
PFL5006(R)	800V	560V	800V
PFL5007(R)	1000V	700V	1000V

**PRESS - FIT  
LUCAS**



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

Average Forward Current	$I_{F(AV)}$	50A	$T_C = 100^{\circ}\text{C}$
Peak Forward Surge Current	$I_{FSM}$	800A	8.3ms, half sine
Maximum Instantaneous Forward Voltage *	$V_F$	1.0V	$I_{FM} = 50A;$ $T_J = 25^{\circ}\text{C}$
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:**

1. Standard Polarity: Lead is Cathode
2. Reverse Polarity: Lead is Anode

DIM	DIMENSIONS				NOTE
	INCHES		MM		
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	

**勝特力材料 886-3-5753170**  
**勝特力电子(上海) 86-21-54151736**  
**勝特力电子(深圳) 86-755-83298787**  
[Http://www.100y.com.tw](http://www.100y.com.tw)

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



FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

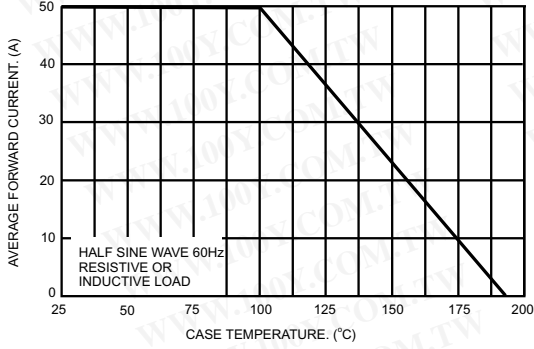


FIG.2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

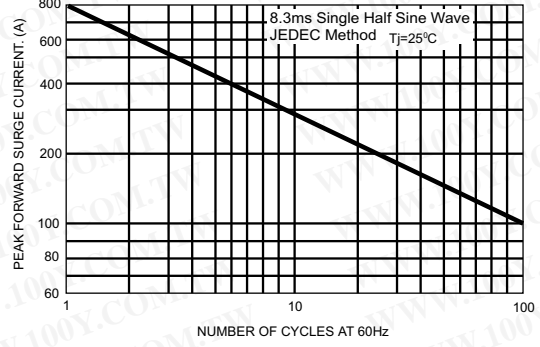


FIG.3- TYPICAL FORWARD CHARACTERISTICS

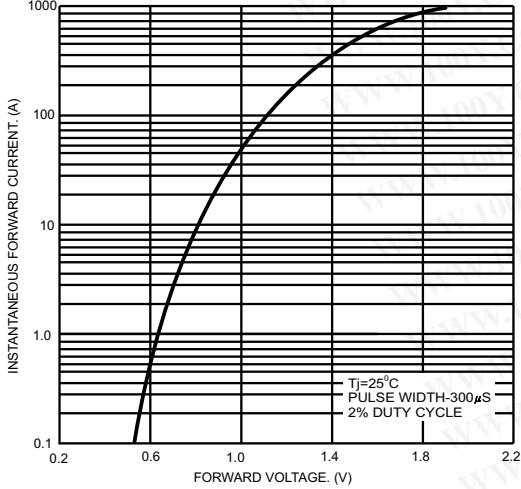
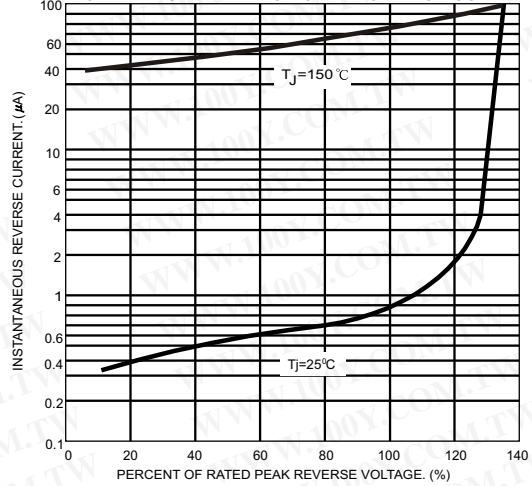


FIG.4- TYPICAL REVERSE CHARACTERISTICS



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