

# **PR1000 THRU PR1800**

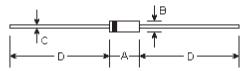
## PHOTOFLASH RECTIFIER

Reverse Voltage - 1000 to 1800 Volts Forward Current - 0.1 Ampere

#### Features

- Fast switching
- Low leakage
- Low forward voltage drop
- High current capability
- High surge capability
- High reliability

DO-41



#### **Mechanical Data**

- Case: Molded plastic
- Epoxy: UL94V-0 rate flame retardant
- Lead: MIL-STD-202E method 208C guaranteed
- Mounting Position: Any
- Weight: 0.012 ounce, 0.335 gram

DIMENSIONS									
DIM	inches		m	Note					
	Min.	Max.	Min.	Max.	Note				
А	0.165	0.205	4.2	5.2					
В	0.079	0.106	2.0	2.7	ф				
С	0.028	0.034	0.71	0.86	ф				
D	1.000	-	25.40	-					

## **Maximum Ratings and Electrical Characteristics**

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

	Symbols	PR1000	PR1200	PR1400	PR1600	PR1800	Units
Maximum repetitive peak reverse voltage	V	1000	1200	1400	1600	1800	Volts
Maximum RMS voltage	V <sub>RMS</sub>	700	840	980	1120	1260	Volts
Maximum DC blocking voltage	V <sub>DC</sub>	1000	1200	1400	1600	1800	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length at $\rm T_{A}{=}55{}^{\circ}{\rm C}$	I <sub>(AV)</sub>	100					
Peak forward surge current 8.3mS single half sine-wave superimposed on rated load (MIL-STD-750D 4066 method)	I <sub>fsm</sub>	20.0					Amps
Maximum instantaneous forward voltage at 0.1A DC	V <sub>F</sub>	1.5					Volts
Maximum DC reverse current at rated DC blocking voltage $T_A$ =25 $^{\circ}C$	I <sub>R</sub>	5.0					
Maximum reverse recovery time (Note 1)	T <sub>r</sub>	300.0					
Typical junction capacitance (Note 2)	C <sub>j</sub>	10					ρF
Operating and storage temperature range	T <sub>J</sub> , T <sub>stg</sub>	-65 to +175					°C

Notes:

(1) Test conditions: I\_F=0.5A, I\_R=1.0A, I\_{RR}=0.25A

(2) Measured at 1.0MHz and applied reverse voltage of 4.0 volts

### **RATINGS AND CHARACTERISTIC CURVES**

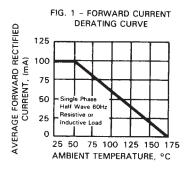
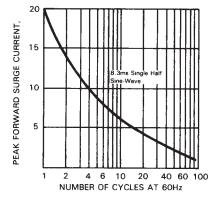


FIG. 3 - MAXIMUM NON-REPETITIVE SURGE CURRENT



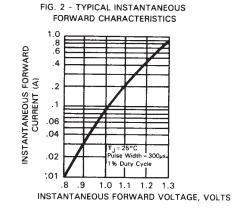


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

