

PR1000R THRU PR1800R

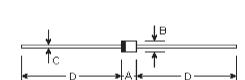
R-1

PHOTOFLASH RECTIFIER

Reverse Voltage - 1000 to 1800 Volts Forward Current - 0.5 Ampere

Features

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



Mechanical Data

- Case: Molded plastic, R-1
- Epoxy: UL94V-0 rate flame retardant
- Lead: MIL-STD-202E method 208C guaranteed
- Mounting Position: Any
- Weight: 0.007 ounce, 0.20 gram

DIMENSIONS									
DIM	inches		m	Note					
	Min.	Max.	Min.	Max.	Note				
A	0.114	0.138	2.9	3.5					
В	0.095	0.099	2.42	2.51	ф				
С	0.020	0.024	0.5	0.6	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	PR1000R	PR1200R	PR1400R	PR1600R	PR1800R	Units
Maximum repetitive peak reverse voltage	V _{RRM}	1000	1200	1400	1600	1800	Volts
Maximum RMS voltage	V _{RMS}	700	840	980	1120	1260	Volts
Maximum DC blocking voltage	V _{DC}	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 _(AV)	500					
Peak forward surge current 8.3mS single half sine-wave superimposed on rated load (MIL-STD-750D 4066 method)	I _{FSM}	30.0					Amps
Maximum instantaneous forward voltage at 0.5A DC	V _F	1.5					Volts
Maximum DC reverse current at rated DC blocking voltage T_A =25°C	I _R	5.0					
Maximum reverse recovery time (Note 1)	T _r	300.0					
Typical junction capacitance (Note 2)	C _j	10					ρF
Operating and storage temperature range	T _J , T _{stg}	-65 to +175					ç

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



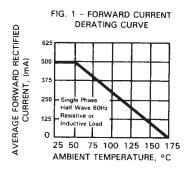
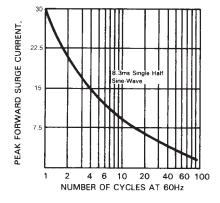


FIG. 3 - MAXIMUM NON-REPETITIVE SURGE CURRENT



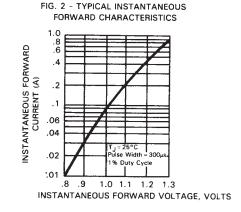


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

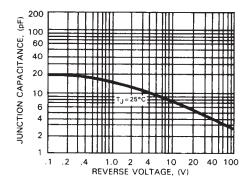


FIG. 5 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTICS

