

PR1000 THRU PR1800

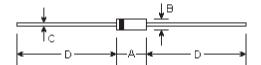
PHOTOFLASH RECTIFIER

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				
Α	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

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 _{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 $\rm T_A = 55^{\circ}C$	I _(AV)	100					
Peak forward surge current 8.3mS single half sine-wave superimposed on rated load (MIL-STD-750D 4066 method)	I _{FSM}	20.0					Amps
Maximum instantaneous forward voltage at 0.1A DC	V _F	1.5					Volts
Maximum DC reverse current at rated DC blocking voltage T _A =25°C	I _R		μА				
Maximum reverse recovery time (Note 1)	T _{rr}		nS				
Typical junction capacitance (Note 2)	C _j	10					ρF
Operating and storage temperature range	T _J , T _{STG}	-65 to +175					ů

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. 1 – FORWARD CURRENT DERATING CURVE

125

(ABURE 100

(ABURE 1

FIG. 2 - TYPICAL INSTANTANEOUS

FIG. 3 - MAXIMUM NON-REPETITIVE SURGE CURRENT

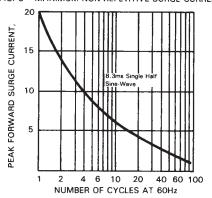


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

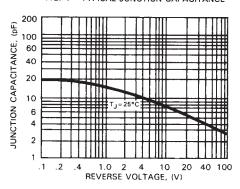


FIG. 5 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTICS

