

PHOTO FLASH RECITIFER

PR1000 THRU PR1600

VOLTAGE RANGE CURRENT 1000 to 1600 Volts 0.5 Ampere

FEATURES

- Fast switching
- Low Leakage
- High Surge Capacity
- High Temperature soldering guaranteed: 260 °C / 10 second, 0.375" (9.5mm) lead length

MECHANICAL DATA

Case: Transfer molded plastic

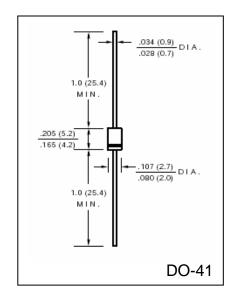
Epoxy: UL94V – 0 rate flame retardant
 Polarity: Color Band denotes cathode end

• Lead: Plated axial lead, solderable per MIL – STD-202E

Method 208C

Mounting Position: Any

• Weight: 0.012 ounce, 0.33 gram



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	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	1000	1200	1400	1600	Volts
Maximum RMS Voltage	V_{RMS}	700	840	980	1120	Volts
Maximum DC Blocking Voltage	V_{DC}	1000	1200	1400	1600	Volts
Maximum Average Forward Rectified Current, 0.375 " (9.5mm) lead length at $T_A = 55$ °C	I _(AV)	0.5				Amps
Peak Forward Surge Current						
8.3mS single half sine wave superimposed on	I_{FSM}	20				Amps
rated load (JEDEC method)						
Maximum Instantaneous Forward Voltage @ 0.5A	V_{F}	1.5				Volts
Maximum DC Reverse Current at Rated $T_A = 25$ °C	I_R	5.0				μΑ
Maximum Full Load Reverse Current, Full Cycle average 0.375 " (9.5mm) lead length at $T_L = 55$ °C	$I_{R(AV)}$	100				μΑ
Maximum Reverse Recovery Time Test conditions $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$	t _{rr}	300				nS
Typical Junction Capacitance (Measured at 1.0MHz and applied reverse voltage of 4.0V)	C_{J}	10				pF
Operating Junction Temperature Range	T_{J}	(-65 to +175)				°C
Storage Temperature Range	T_{STG}	(-65 to +175)				°C



RATINGS AND CHARACTERISTIC CURVES PR1000 THRU PR1600

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

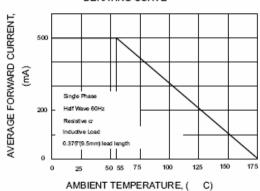


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

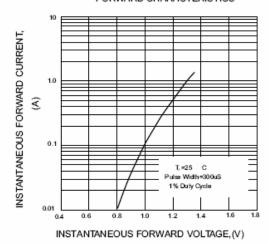
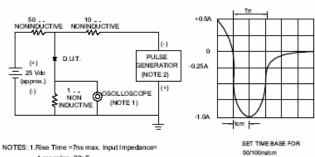


FIG.5-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



2.Rise time=10ns max. Source Impedance= 50 ohms

1 megohm. 22pF

