

# PHOTO FLASH RECITIFER

PR1000 THRU PR1600	VOLTAGE RANGE	1000 to 1600 Volts	
PK1000 INKU PK1000	CURRENT	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

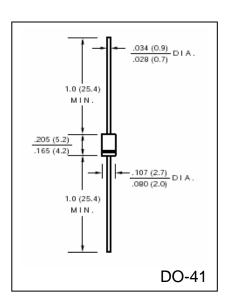
### MECHANICAL DATA

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





# **RATINGS AND CHARACTERISTIC CURVES PR1000 THRU PR1600**

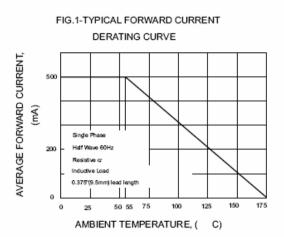
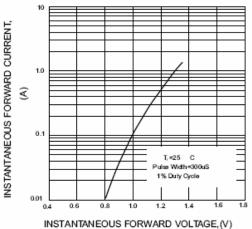
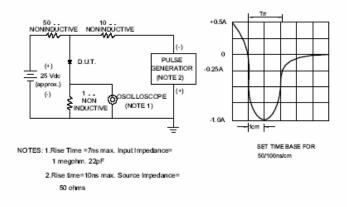


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



#### FIG.5-TEST CIRCUIT DIAGRAM AND

REVERSE RECOVERY TIME CHARACTERISTIC

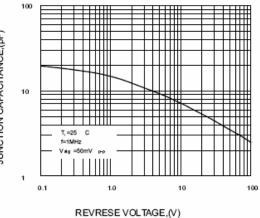


FORWARD SURGE CURRENT 20 PEAK FORWARD SURGE 8.3ms Single Half Sine-Wave (JEDEC Method)  $= T_j$ jna CURRENT, (A) 10 0 4 6 8 10 40 60 100

FIG.2-MAXIMUM NON-REPETITIVE PEAK

#### NUMBER OF CYCLES AT 60 Hz

#### FIG.4-TYPICAL JUNCTION CAPACITANCE



JUNCTION CAPACITANCE, (pF)

Downloaded from Elcodis.com electronic components distributor