



CHENMKO ENTERPRISE CO.,LTD

Lead free devices

**SINGLE-PHASE GLASS PASSIVATED
SILICON BRIDGE RECTIFIER**

VOLTAGE RANGE 50 - 1000 Volts CURRENT 1.5 Amperes

**W005LPT
THRU
W10LPT**

FEATURES

- * High reverse voltage to 1000V
- * Surge overload rating - 50 Amperes peak
- * Good for printed circuit board assembly
- * Silver-plated copper leads

MECHANICAL DATA

Case: JEDEC RC-2 molded plastic

Mounting position: Any

Polarity: Polarity symbols marked on body

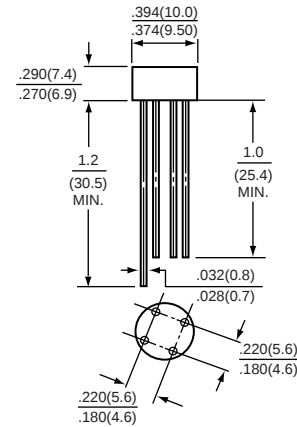
Weight: 1.37 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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



RC-2



Dimensions in inches and (millimeters)

RC-2

MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	W005LPT	W01LPT	W02LPT	W04LPT	W06LPT	W08LPT	W10LPT	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at TA = 50°C	Io	1.5							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	50							Amps
Operating Temperature Range	TJ	-55 to +125							°C
Storage Temperature Range	TSTG	-55 to +150							°C

ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL	W005LPT	W01LPT	W02LPT	W04LPT	W06LPT	W08LPT	W10LPT	UNITS
Maximum Instantaneous Forward Voltage at 1.5 A DC	VF	1.0							Volts
Maximum Reverse Current at rated	@ TA = 25°C	10							uAmps
DC blocking Voltage per element	@ TA = 100°C	0.2							mAmps

RATING CHARACTERISTIC CURVES (W005LPT THRU W10LPT)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

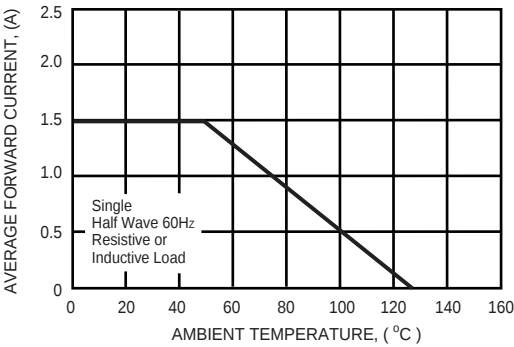


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

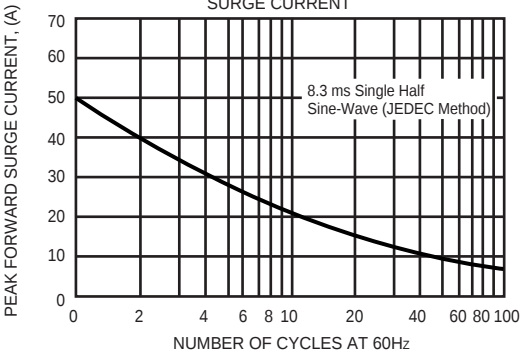


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

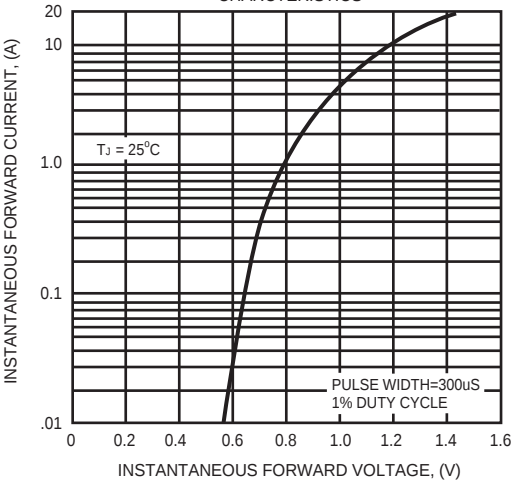


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

