



# CHENMKO ENTERPRISE CO.,LTD

Lead free devices

## SILICON RECTIFIER

VOLTAGE RANGE 1200 - 2000 Volts CURRENT 0.2 to 0.5 Ampere

R1200PT  
THRU  
R2000PT

### FEATURES

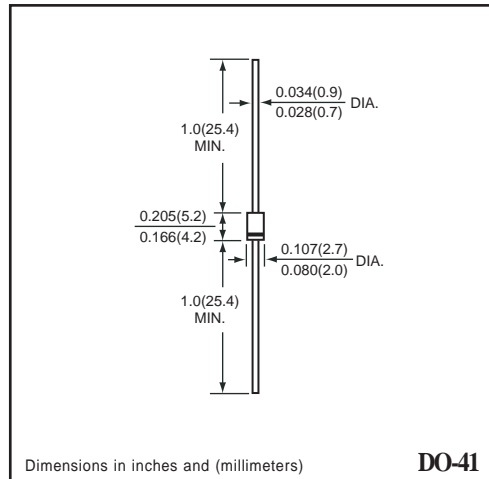
- \* Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- \* Low cost
- \* Low leakage
- \* Low forward voltage drop
- \* High current capability

### MECHANICAL DATA

**Case:** JEDEC DO-41 molded plastic  
**Terminals:** Plated axial leads, solderable per MIL-STD-750, Method 2026  
**Polarity:** Color band denotes cathode end  
**Mounting Position:** Any  
**Weight:** 0.35 gram



DO-41



DO-41

### 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%.

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

RATINGS	SYMBOL	R1200PT	R1500PT	R1800PT	R2000PT	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	1200	1500	1800	2000	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	840	1050	1260	1400	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	1200	1500	1800	2000	Volts
Maximum Average Forward Rectified Current at TA = 50°C	I <sub>o</sub>	500			200	mAmps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	30				Amps
Typical Junction Capacitance ( Note )	C <sub>J</sub>	30				pF
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-65 to +175				°C

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

CHARACTERISTICS	SYMBOL	R1200PT	R1500PT	R1800PT	R2000PT	UNITS
Maximum Instantaneous Forward Voltage at 0.5A/0.2A DC	V <sub>F</sub>	2.0			3.0	Volts
Maximum Reverse Current at rated	I <sub>R</sub>	5.0			50	uAmps
DC blocking Voltage per leg						uAmps
Maximum Full Load Reverse Current Average, Full Cycle 0.375" (9.5mm) lead length at TL = 75°C		30			uAmps	

NOTES : Measured at 1.0 MHz and applied reverse voltage of 4.0 volts

## RATING CHARACTERISTIC CURVES ( R1200PT THRU R2000PT )

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

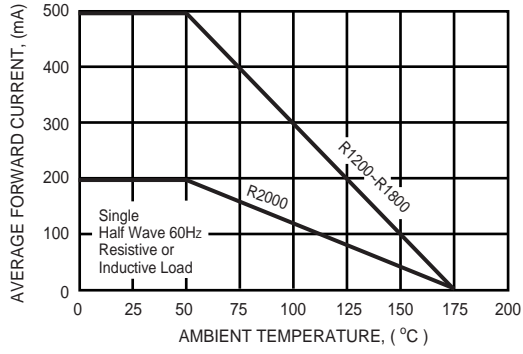


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

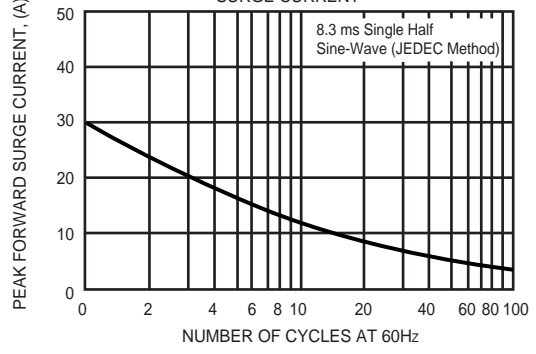


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

