

CHENMKO ENTERPRISE CO.,LTD

H30D05PT THRU H30D60PT

HIGH EFFICIENCY RECTIFIER

VOLTAGE RANGE 50 - 600 Volts CURRENT 30 Amperes

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- * Dual rectifier construction, positive centertap
- * Glass passivated chip junctions
- * Low power loss
- * Low forward voltage, high current capability
- * High surge current capability
- * Ultra fast recovery times for high efficiency
- * High temperature soldering guaranteed : 260°C/10 seconds at terminals

MECHANICAL DATA

Case: JEDEC TO-247 molded plastic

Terminals: Lead solderable per MIL-STD-750,

Method 2026

Polarity: As marked

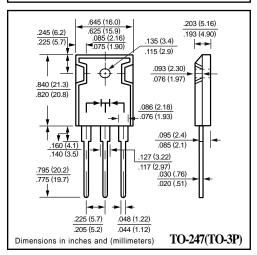
Weight: 5.6 grams (Approximately)

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%.

TO-247(TO-3P)



MAXIMUM RATINGES (At $TA = 25^{\circ}C$ unless otherwise noted)

RATINGS	SYMBOL	H30D05PT	H30D10PT	H30D15PT	H30D20PT	H30D30PT	H30D40PT	H30D50PT	H30D60PT	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	150	200	300	400	500	600	Volts
Maximum RMS Voltage	VRMS	35	70	105	140	210	280	350	420	Volts
Maximum DC Blocking Voltage	VDC	50	100	150	200	300	400	500	600	Volts
Maximum Average Forward Rectified Current	lo	30.0								Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	250								Amps
Typical Junction capacitance per leg (NOTE 1)	Cı	200 140					pF			
Typical thermal resistance (NOTE 2)	R θJC	1.0							°C/W	
Operating and Storage Temperature Range	TJ, TSTG	-65 to +150							°C	

ELECTRICAL CHARACTERISTICS (At $TA = 25^{\circ}C$ unless otherwise noted)

CHARACTERISTICS		SYMBOL	H30D05PT	H30D10PT	H30D15PT	H30D20PT	H30D30PT	H30D40PT	H30D50PT	H30D60PT	UNITS
Maximum Instantaneous Forward Voltage at 15.0 A DC		VF	1.00			1.25		1.	50	Volts	
Maximum DC reverse current	TC = 25°C	l _R	10.0								uAmps
at rated DC blocking voltage per leg	Tc = 100°C	IR IR	500								uAmps
Maximum reverse recovery time (NOTE 3) per leg		trr		5	50 75		5		nS		

NOTES: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts

- 2. Thermal resistance from junction to case per leg mounted on heatsink
- 3. Reverse recovery test conditions : IF = 0.5 A, Ir = -1.0 A, Irr = -0.25 A.
- 4. Suffix " C " = Common Cathod, Suffix " A " = Common Anode, Suffix " D " = Double.

2001-6

RATING CHARACTERISTIC CURVES (H30D05PT THRU H30D60PT)

