

CHENMKO ENTERPRISE CO.,LTD

H16C05PT THRU H16C60PT

Lead free devices

HIGH EFFICIENCY RECTIFIER

VOLTAGE RANGE 50 - 600 Volts CURRENT 16 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-220 molded plastic

Terminals: Lead solderable per MIL-STD-750,

Method 2026

Polarity: As marked

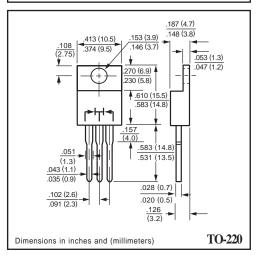
Weight: 2.24 grams (Approximately)

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-220



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

RATINGS	SYMBOL	H16C05PT	H16C10PT	H16C15PT	H16C20PT	H16C30PT	H16C40PT	H16C50PT	H16C60PT	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	16.0							Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSМ	125							Amps	
Typical Junction capacitance per leg (NOTE 1)	Cì	120 70				pF				
Typical thermal resistance (NOTE 2)	R θJC	2.5							°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	H16C05PT	H16C10PT	H16C15PT	H16C20PT	H16C30PT	H16C40PT	H16C50PT	H16C60PT	UNITS	
Maximum Instantaneous Forward Voltage at 8.0 A DC		VF	1.00			1.25		1.50		Volts		
Maximum DC reverse current	TC = 25°C				10.0							
at rated DC blocking voltage per leg	Tc = 100°C	lR IR	500								uAmps	
Maximum reverse recovery time (NOTE 3) per leg		trr	50		75				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.

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RATING CHARACTERISTIC CURVES (H16C05PT THRU H16C60PT)

