



CHENMKO ENTERPRISE CO.,LTD

HIGH EFFICIENCY RECTIFIER

VOLTAGE RANGE 50 - 600 Volts CURRENT 8 Amperes

H08A05PT

THRU

H08A60PT

Lead free devices

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
- * Fast recovery times for high efficiency
- * High temperature soldering guaranteed : 260°C/10 seconds at terminals

MECHANICAL DATA

Case: JEDEC TO-220A molded plastic

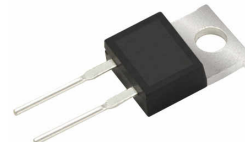
Terminals: Lead solderable per MIL-STD-750, Method 2026

Polarity: As marked

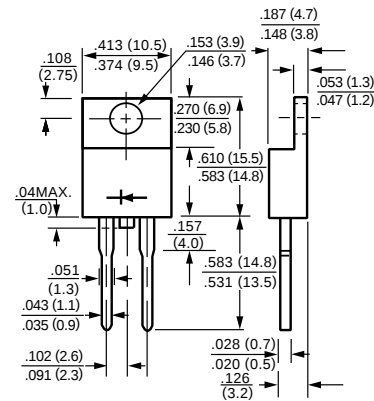
Weight: 1.81 grams (Approximately)

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-220A



TO-220A

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

RATINGS	SYMBOL	H08A05PT	H08A10PT	H08A15PT	H08A20PT	H08A30PT	H08A40PT	H08A50PT	H08A60PT	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	Io	8.0								Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	125								Amps
Typical Junction capacitance per leg (NOTE 1)	CJ	120				70				pF
Typical thermal resistance (NOTE 2)	R θJC	5.0								°C / W
Operating and Storage Temperature Range	TJ, TSTG	-65 to +150								°C

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

CHARACTERISTICS		SYMBOL	H08A05PT	H08A10PT	H08A15PT	H08A20PT	H08A30PT	H08A40PT	H08A50PT	H08A60PT	UNITS	
Maximum Instantaneous Forward Voltage at 8.0A DC		V _F	1.00				1.25		1.50		Volts	
Maximum DC reverse current at rated DC blocking voltage per leg	T _C = 25°C	I _R	10.0									uAmps
	T _C = 100°C		500									
Maximum reverse recovery time (NOTE 3) per leg		t _{rr}	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 " P " = Case Positive, Suffix " R " = Case Negative.

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RATING CHARACTERISTIC CURVES (H08A05PT THRU H08A60PT)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

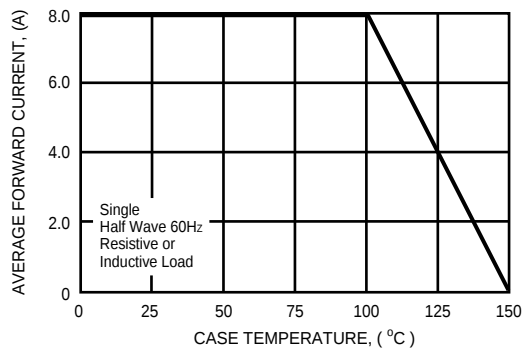


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

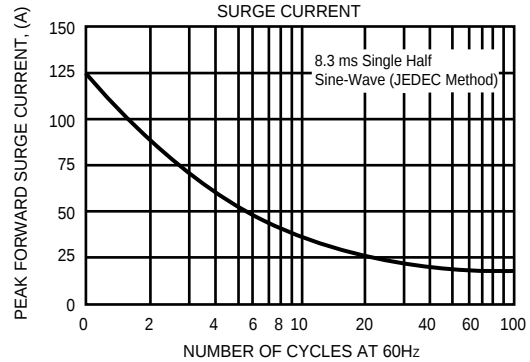


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

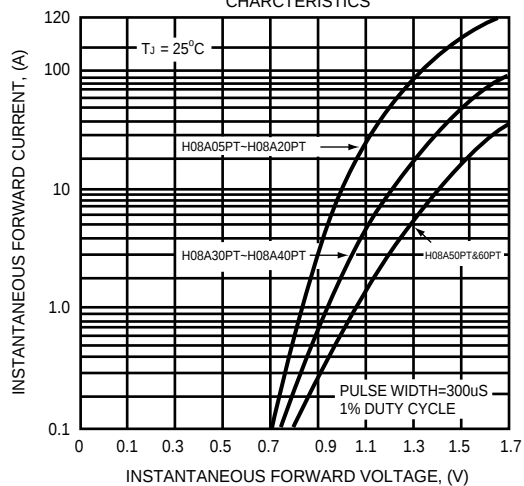


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

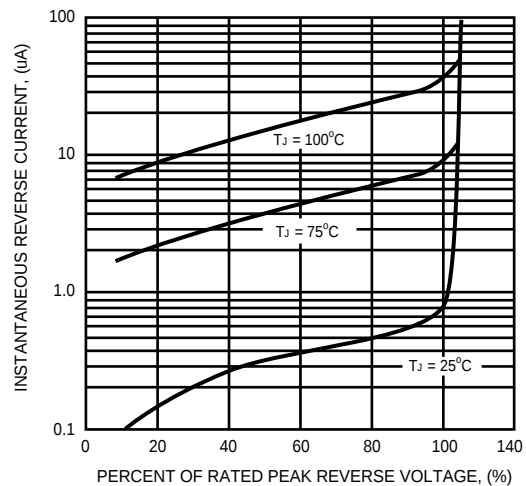


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

