



CHENMKO ENTERPRISE CO.,LTD

U08A05PT

THRU

U08A60PT

ULTRA FAST RECTIFIER

VOLTAGE RANGE 50 - 600 Volts CURRENT 8 Amperes

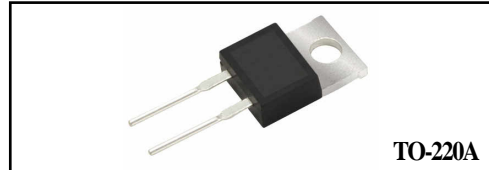
Lead free devices

FEATURES

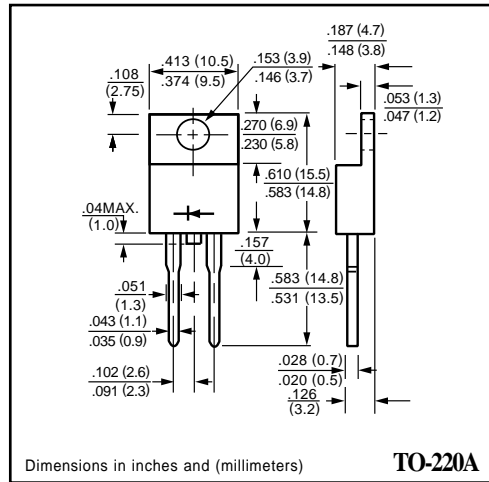
- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- * Dual rectifier construction, positive centertap
- * Glass passivated chip junctions
- * Low power loss
- * Low forward voltage, high current capability
- * High surge current capability
- * Ultra fast recovery times 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)



TO-220A



TO-220A

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	U08A05PT	U08A10PT	U08A15PT	U08A20PT	U08A30PT	U08A40PT	U08A50PT	U08A60PT	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	3.0								°C / W
Operating and Storage Temperature Range	TJ, TSTG	-65 to +150								°C

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

CHARACTERISTICS	SYMBOL	U08A05PT	U08A10PT	U08A15PT	U08A20PT	U08A30PT	U08A40PT	U08A50PT	U08A60PT	UNITS
Maximum Instantaneous Forward Voltage at 8.0 A DC	VF	0.975			1.30		1.50			Volts
Maximum DC reverse current at rated DC blocking voltage per leg	IR	10.0								uAmps
		500								
Maximum reverse recovery time (NOTE 3) per leg	trr	35				50				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.

RATING CHARACTERISTIC CURVES (U08A05PT THRU U08A60PT)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

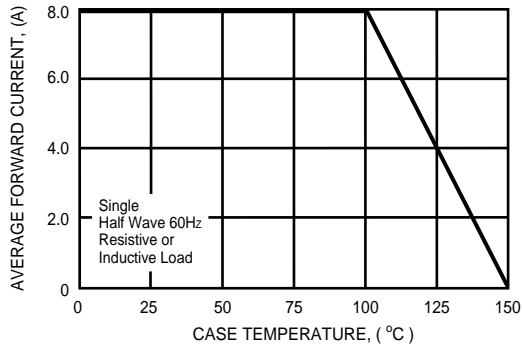


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

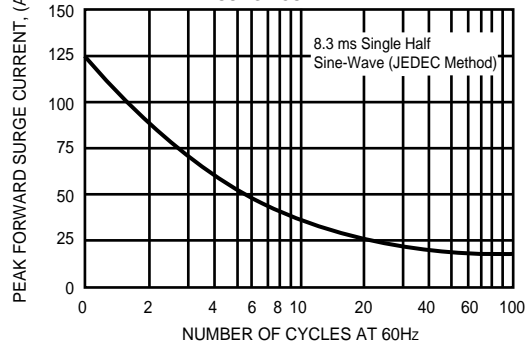


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

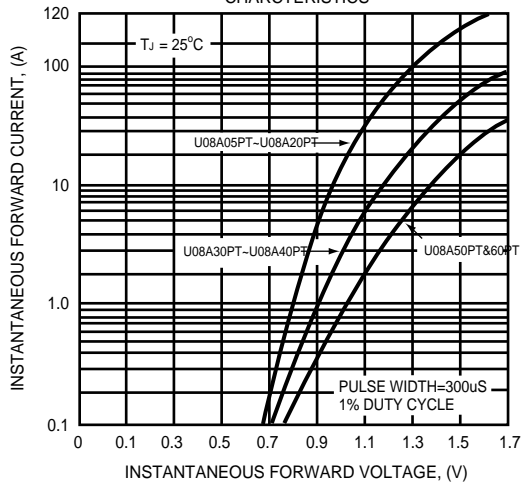


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

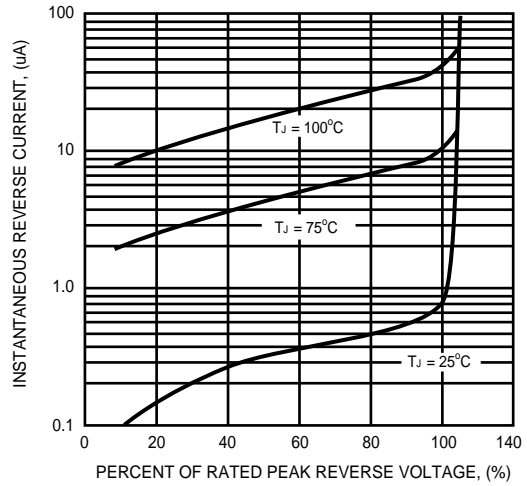


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

