

## CHENMKO ENTERPRISE CO.,LTD

FAST RECOVERY RECTIFIER

VOLTAGE RANGE 50 - 600 Volts CURRENT 8 Amperes

F08A05GP **THRU** F08A60GP

#### **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

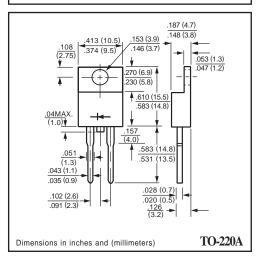
Weight: 1.81 grams ( Approximately )

### 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



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

RATINGS	SYMBOL	F08A05GP	F08A10GP	F08A15GP	F08A20GP	F08A30GP	F08A40GP	F08A50GP	F08A60GP	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	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 )	Сл	120 70				pF				
Typical thermal resistance ( NOTE 2 )	R θJC	5.0							°C/W	
Operating and Storage Temperature Range	ТJ, Tsтg	-65 to +175							°C	

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

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CHARACTERISTICS		SYMBOL	F08A05GP	F08A10GP	F08A15GP	F08A20GP	F08A30GP	F08A40GP	F08A50GP	F08A60GP	UNITS
Maximum Instantaneous Forward Voltage at 8.0 A	DC	VF		0.9	975		1.	30	1.50		Volts
Maximum DC reverse current	TC = 25°C	la la	10.0								
at rated DC blocking voltage per leg	$TC = 100^{\circ}C$	IR IR	500								uAmps
Maximum reverse recovery time ( NOTE 3 ) per leg		trr	150 250					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.

2008-01

### RATING CHARACTERISTIC CURVES (F08A05GP THRU F08A60GP)

