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Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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FR801 - FR805

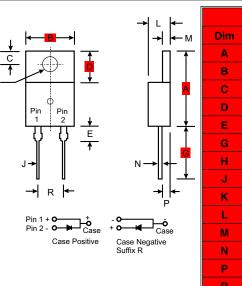
8.0A FAST RECOVERY RECTIFIER

Features

- Low Reverse Recovery Time
- Low Leakage
- Low Forward Voltage Drop
- High Current Capability
- High Surge Capability
- Plastic Material UL Flammability Rating 94V-0
- High Reliability

Mechanical Data

- Case: TO-220A, Molded Plastic
- Terminals: Plated Axial Leads, Solderable per MIL-STD-202, Method 208
- Polarity: See Diagram at Right
- Approx. Weight: 2.24 grams
- Mounting Position: Any



∟ k—	TO-220A						
- →	Dim	Min	Max				
	Α	14.22	15.88				
	В	9.65	10.67				
	С	2.54	3.43				
	D	5.84	6.86				
┯┙ <u>┿</u> ┃ ╻╡	E		6.25				
	G	12.70	14.73				
	н	2.29	2.79				
Ů <u>↓</u>	J	0.51	1.14				
≯ ←	к	3.53Ø	4.09Ø				
Ā	L	3.56	4.83				
Case	М	1.14	1.40				
tive	Ν	0.30	0.64				
	Р	2.03	2.92				
	R	4.83	5.33				
	All Dimensions in mm						

Maximum Ratings and Electrical Characteristics

Ratings at 25° C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.

Characteristic	Symbol	FR801	FR802	FR803	FR804	FR805	Unit
Maximum Recurrent Peak Reverse Voltage		50	100	200	400	600	V
Maximum RMS Voltage		35	70	140	280	420	V
Maximum DC Blocking voltage	VDC	50	100	200	400	600	V
Maximum Average Forward Rectified Current 0.375" (9.5mm) Lead Length @ Tc = 100°C		8.0					А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		150					А
Maximum Instantaneous Forward Voltage @ 8.0A DC		1.3					V
Maximum DC Reverse Current at Rated DC Blocking Voltage @ $T_A = 25^{\circ}C$		10					μΑ
Maximum Full Load Reverse Current Full Cycle @ Tc = 100°C		150					μΑ
Maximum Reverse Recovery Time (Note 1)		150 2			250	ns	
Typical Junction Capacitance (Note 2)		70					pF
Operating and Storage Temperature Range		-65 to +175					°C

- Notes: 1. Reverse Recovery Test Conditions: IF =0.5 A, IR =1.0 A, IRR =0.25 A
 - 2. Measured at 1.0MHz and applied reverse voltage of 4.0V.

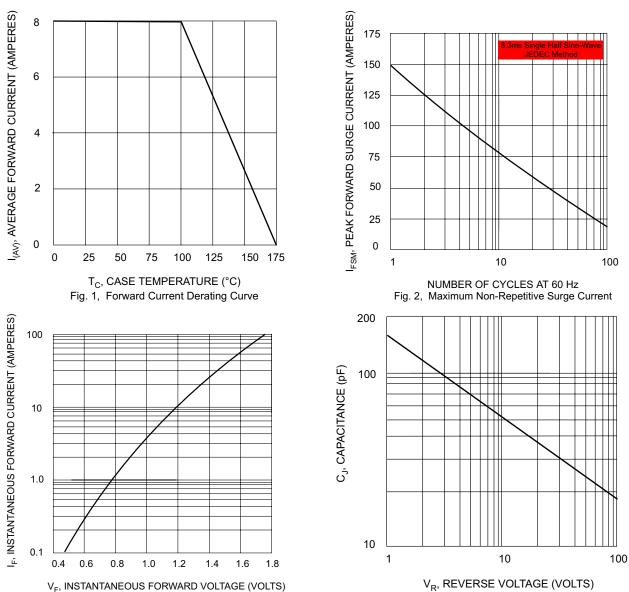


Fig. 3, Typical Instantaneous Forward Characteristics

