

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!



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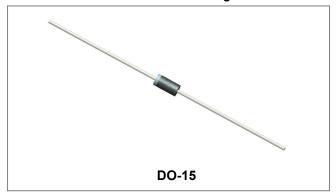




FR201G THRU FR207G

FAST RECOVERY GLASS PASSIVATED RECTIFIERS

Reverse Voltage - 50 to 1000 Volts Forward Current - 2.0 Amperes



Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Fast switching for high efficiency
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed: 260 C/10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension
- Glass passivated chip junction
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Circuit Diagram



Mechanical Data

- Case: JEDEC DO-15 molded plastic body
- Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight: 0.014 ounce, 0.40 grams

Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Characteristic	Symbol	FR 201G	FR 202G	FR 203G	FR 204G	FR 205G	FR 206G	FR 207G	Units
Maximum repetitive peak reverse voltage Maximum DC blocking voltage	$V_{RRM} \ V_{DC}$	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	٧
Maximum average forward rectified current 0.375"(9.5mm) lead length at @T _A =75°C	I _(AV)	2.0				Α			
Peak forward surge current 8.3ms single half sinewave superimposed on rated load (JEDEC Method)	I _{FSM}	70				Α			
Maximum instantaneous forward voltage at 2.0A	V _F	1.3				V			
Maximum DC reverse current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C	I _{RM}	5.0 100			μA				
Maximum reverse recovery time (Note 1)	t _{rr}	150		250	5	00	ns		
Typical Junction Capacitance (Note 2)	CJ	40			pF				
Typical Thermal Resistance Junction to Ambient (Note 3)	R _{θJA}	40			°C/W				
Operating junction and storage temperature range	T _J , T _{STG}	-55 to +150			°C				

- Note: 1. Reverse recovery condition IF=0.5A, IR=1.0A, Irr=0.25A
 - 2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
 - 3. Thermal resistance from junction to ambient at 0.375"(9.5mm)lead length, P.C.B. mounted
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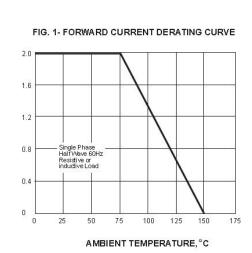




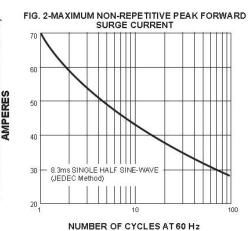


Ratings and Characteristics Curves

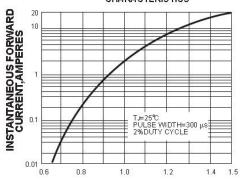


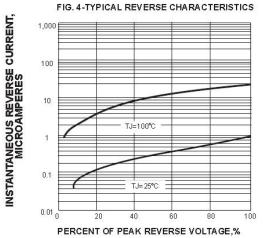




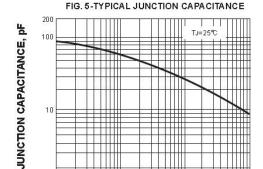








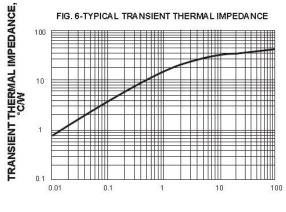
INSTANTANEOUS FORWARD VOLTAGE, VOLTS



REVERSE VOLTAGE, VOLTS

0.1





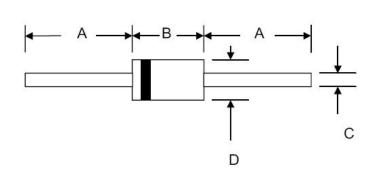
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Mechanical Dimensions DO-15



SYMBOL	Millin	neters	Inches			
OTMBOL	Min.	Max.	Min.	Max.		
А	25.4	-	1.000	-		
В	5.5	7.62	0.217	0.300		
С	0.7	0.9	0.028	0.034		
D	2.6	3.6	0.104	0.140		

Ordering Information

Device	Package	Shipping		
FR201G-FR207G	DO-15 (Pb-Free)	3000pcs /tape		

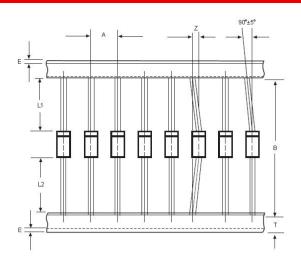
For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

Marking Diagram



FR201G = Part Name

Carrier Tape Specification DO-15



SYMBOL	Millimeters			
	Min.	Max.		
А	4.50	5.50		
В	50.9	53.9		
Z	-	1.20		
Т	5.60	6.40		
E	-	0.80		
IL1-L2I	-	1.0		

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