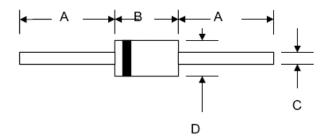
Technical Data

Green Products

Data Sheet N0445, Rev. -

Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request



Mechanical Data

Case: Molded Plastic

 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: Cathode Band

Weight: 0.40 grams (approx.)

Mounting Position: Any

Marking: Type Number

DO-15								
Dim	Min	Max	Min	Max				
Α	25.4	_	1.000	_				
В	5.50	7.62	0.217	0.300				
С	0.71	0.864	0.028	0.034				
D	2.60	3.60	0.102	0.142				
	In mm		In inch					

Marking Diagram:

Where XXXXX is YYWWL



FR207 = Part Name SSG = SSG YY = Year WW = Week L = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information

Device	Package	Shipping
FR201-FR207	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.

[•] Weigi Street, Airport Development Zone, Jiangning District, Nanjing, China 211113 ☐ (86) 25-87123907 •

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

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	FR201	FR202	FR203	FR204	FR205	FR206	FR207	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	200	400	600	800	1000	٧
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	٧
Average Rectified Output Current (Note 1) @T _A = 55°C	lo	2.0					Α		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	İFSM	60					Α		
Forward Voltage @I _F = 2.0A	VFM	1.2					٧		
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C	IRM	5.0 100					μА		
Reverse Recovery Time (Note 2)	trr	150 250 5			00	nS			
Typical Junction Capacitance (Note 3)	Cj	30				pF			
Operating Temperature Range	Tj	-65 to +125				°C			
Storage Temperature Range	Тѕтс	-65 to +150					°C		

*Glass passivated forms are available upon request

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

- 2. Measured with IF = 0.5A, IR = 1.0A, IRR = 0.25A. See figure 5.
- 3. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

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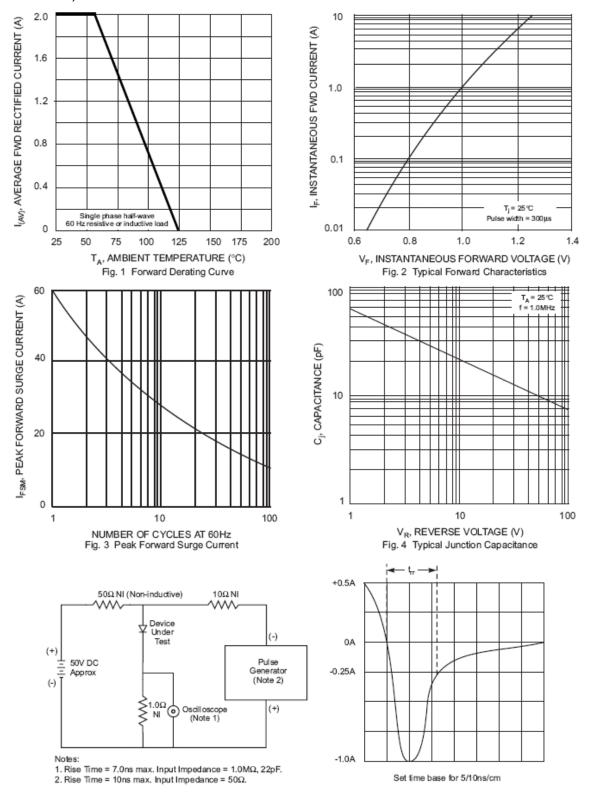


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

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