

### **Features**

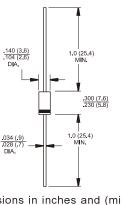
- ∻ High efficiency, Low VF
- High current capability
- High reliability High surge current capability
- Low power loss.
- Green compound with suffix "G" on packing ♦ code & prefix "G" on datecode.

#### Mechanical Data

- ∻
- ∻
- ∻
- Cases: Molded plastic Epoxy: UL 94V-0 rate flame retardant Lead: Pure tin plated, Lead free., solderable per MIL-STD-202, Method 208 guaranteed Polarity: Color band denotes cathode end High temperature soldering guaranteed: 260 °C /10 seconds/.375",(9.5mm) lead lengths at 5 lbs.,(2.3kg) tension Weight: 0.40 grams ∻ ∻
- ♦ Weight: 0.40 grams

## FR201 - FR207 2.0 AMPS. Fast Recovery Rectifiers

#### **DO-15**



Dimensions in inches and (millimeters)

Marking Diagram

FR20X

SGYWW

FR20X = Specific Device Code G = Green Compound Υ = Year WW = Work Week

# Maximum Ratings and Electrical Characteristics Rating 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%

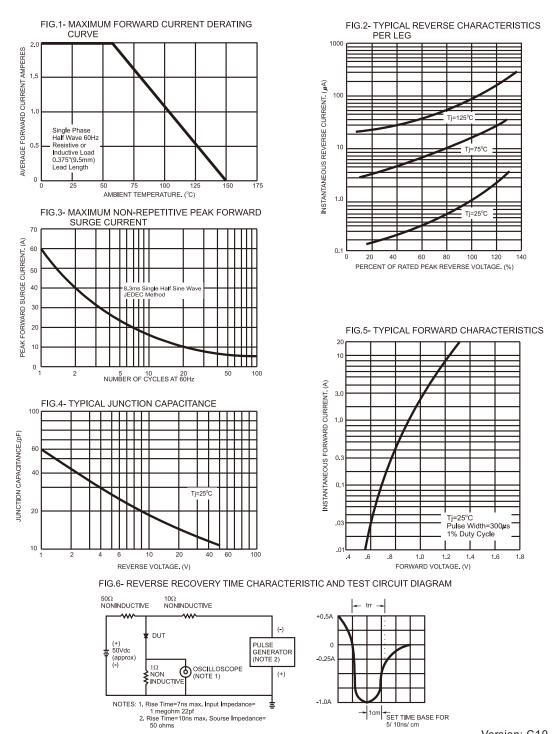
Type Number	Symbol	FR 201	FR 202	FR 203	FR 204	FR 205	FR 206	FR 207	Units
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current.375"(9.5mm) Lead Length $@T_A = 55 \degree$ C	F(AV)	2.0							А
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	IFSM	60							А
Maximum Instantaneous Forward Voltage @ 2.0A	VF	1.2							V
$\begin{array}{llllllllllllllllllllllllllllllllllll$		5.0 150							uA uA
Maximum Reverse Recovery Time (Note 4)	Trr	150 250 500				nS			
Typical Junction Capacitance (Note 2)	Cj	30						pF	
Typical Thermal Resistance(Note 3)	Reja Rejl Rejc	60 18 5						°C/W	
Operating Temperature Range	TJ	-65 to +150							°C
Storage Temperature Range	Tstg	-65 to +150							°C

Notes: 1. Pulse Test with PW=300 usec,1% Duty Cycle

2. Measured at 1 MHz and Applied Reverse Voltage of 4..0 Volts D.C. 3. Mount on Cu-Pad Size 10mm x 10mm on P.C.B. 4. Reverse Recovery Test Conditions:  $I_F=0.5A$ ,  $I_R=1.0A$ ,  $I_{RR}=0.25A$ 

Version: C10





#### RATINGS AND CHARACTERISTIC CURVES (FR201 THRU FR207)

Version: C10