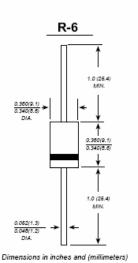


**Technical Data** Data Sheet N1002, Rev. - **Green Products** 

# FR601G THRU FR607G

#### FAST RECOVERY GLASS PASSIVATED RECTIFIERS

Reverse Voltage - 50 to 1000 Volts Forward Current - 6.0 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:
- 250°C/10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension
- 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: R-6 molded plastic body

Terminals: Plated axial leads, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any Weight:0.072 ounce, 2.05 grams

# **MARKING DIAGRAM**



Where XXXXX is YYWWL

= Part Name FR601G SSG = SSG ΥY = Year WW = Week = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

#### ORDERING INFORMATION

Device	Package	Shipping
FR601G-FR607G	R-6 (Pb-Free)	500pcs / reel

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

<sup>•</sup> FAX (86) 25-87123900 • World Wide Web Site - http://www.sangdest.com.cn • E-Mail Address - sales@ sangdest.com.cn •

## FR601G-FR607G

# 6.0A GLASS PASSIVATED FAST RECOVERY RECTIFIER

**Technical Data** Data Sheet N1002, Rev. - **Green Products** 

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

	SYMBOLS	FR 601G	FR 602G	FR 603G	FR 604G	FR 605G	FR 606G	FR 607G	UNITS
Maximum repetitive peak reverse voltage		50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage		35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage		50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current 0.375"(9.5mm) lead length at Ta=75 ℃		6.0						Amps	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		300.0						Amps	
Maximum instantaneous forward voltage at 6.0A		1.3						Volts	
Maximum DC reverse current Ta=25 ℃ at rated DC blocking voltage Ta=100 ℃		10.0 200.0						μА	
Maximum reverse recovery time (NOTE 1)	tır		15	0		250	50	00	ns
Typical junction capacitance (NOTE 2)		150.0							pF
Typical thermal resistance (NOTE 3)		10.0						°C/W	
Operating junction and storage temperature range		-65 to +150							°C

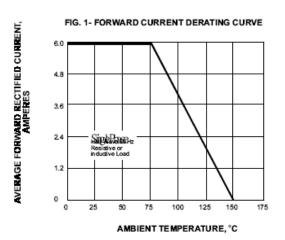
Note:1.Reverse recovery condition IF=0.5A,IR=1.0A,Irr=0.25A
2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.
3.Thermal resistance from junction to ambient at 0.375"(9.5mm)lead length,P.C.B. mounted

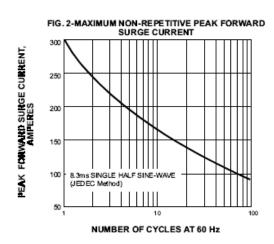
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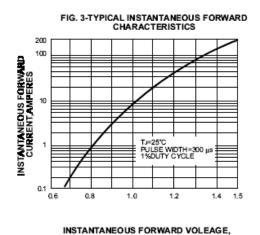
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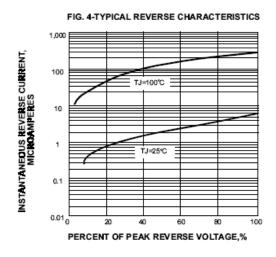
Technical Data Data Sheet N1002, Rev. - **Green Products** 

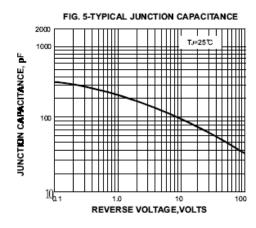
# RATINGS AND CHARACTERISTIC CURVES FR601G THRU FR607G

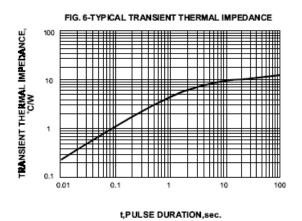












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### FR601G-FR607G 6.0A GLASS PASSIVATED FAST RECOVERY RECTIFIER

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