

## FR101G THRU FR107G

VOLTAGE RANGE CURRENT

50 to 1000 Volts 1.0 Ampere

### **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

### **MECHANICAL DATA**

- Case: JEDEC DO-41 molded plastic body
- Terminals: Plated axial leads, solderable per MIL-STD-750,
- Method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight: 0.012 ounce, 0.33 grams

# DO-41 1.0 (25.4) 0.205(5.2) 1.0 (25.4)

Dimensions in inches and (millimeters)

## 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 101G	FR 102G	FR 103G	FR 104G	FR 105G	FR 106G	FR 107G	UNITS
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current	Long	I <sub>(AV)</sub> 1.0							Amp
0.375"(9.5mm) lead length at Ta=75℃	I(AV)								
Peak forward surge current									
8.3ms single half sine-wave superimposed on	IFSM	IFSM 30.0							Amps
rated load (JEDEC Method)									
Maximum instantaneous forward voltage at 1.0A	VF	1.3							Volts
Maximum DC reverse current Ta=25°C		5.0							μА
at rated DC blocking voltage Ta=100℃	l <sub>R</sub>	50.0							μΑ
Maximum reverse recovery time (NOTE 1)	trr		15	0		250	50	00	ns
Typical junction capacitance (NOTE 2)	Cı	15.0						pF	
Typical thermal resistance (NOTE 3)	Reja	50.0						°C/W	
Operating junction and storage temperature range	Тл,Твтс	-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

Web Site: WWW.PS-PFS.COM

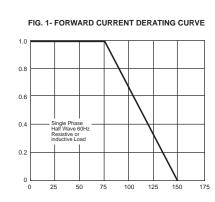


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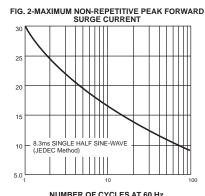
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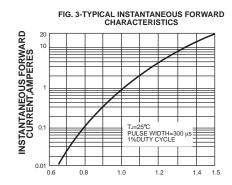




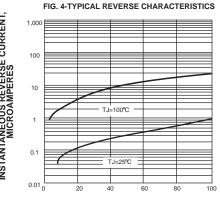


AMBIENT TEMPERATURE,°C

NUMBER OF CYCLES AT 60 Hz

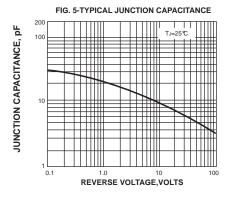


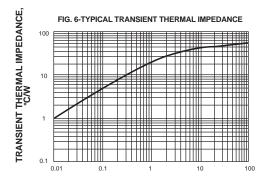




INSTANTANEOUS FORWARD VOLTAGE, VOLTS







t,PULSE DURATION,sec.

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