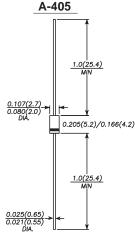
FR101SG THRU FR107SG

FAST RECOVERY GLASS PASSIVATED RECTIFIERS

Reverse Voltage - 50 to 1000 Volts Forward Current - 1.0 Ampere



Dimensions in inches and (millimeters)

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 guarantéed: 260°C/10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension
- Glass passivated chip junction

MECHANICAL DATA

Case: A-405 molded plastic body

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

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.008 ounce, 0.23 grams

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 101SG	FR 102SG	FR 103SG	FR 104SG	FR 105SG	FR 106SG	FR 107SG	UNITS	
Maximum repetitive 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	I(AV)	1.0							А	
0.375"(9.5mm) lead length at Ta=75°C	I(AV)	1.0								
Peak forward surge current										
8.3ms single half sine-wave superimposed on	Ifsm 30.0							Α		
rated load (JEDEC Method)										
Maximum instantaneous forward voltage at 1.0A	VF	1.3						V		
Maximum DC reverse current Ta=25°C		5.0 50.0							μА	
at rated DC blocking voltage Ta=100℃	IR							μΛ		
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)	RθJA	50.0						°C/W		
Operating junction and storage temperature range	Т _J ,Тsтg	-55 to +150						°C		

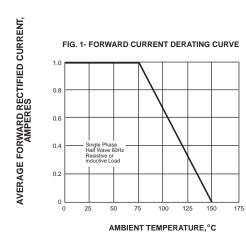
Note: 1. Reverse recovery condition IF=0.5A, IR=1.0A, Irr=0.25A

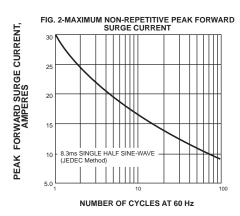
2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

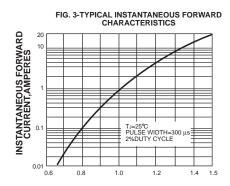
3.Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

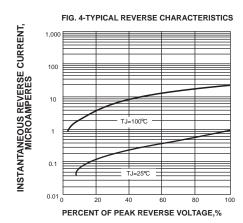


RATINGS AND CHARACTERISTIC CURVES FR101SG THRU FR107SG

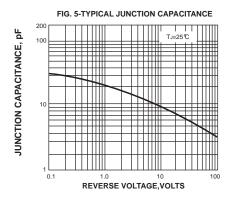


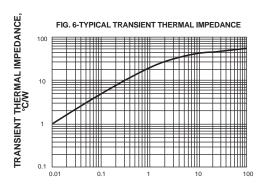












t,PULSE DURATION,sec.

