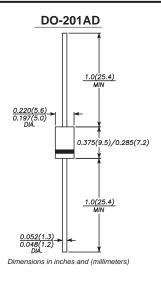
FR301G THRU FR307G

FAST RECOVERY GLASS PASSIVATED RECTIFIERS

Reverse Voltage - 50 to 1000 Volts Forward Current - 3.0 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: 260°C/10 seconds,0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension
- Glass passivated chip junction

MECHANICAL DATA

Case: JEDEC DO-201AD molded plastic body

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

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any Weight: 0.04 ounce, 1.10 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%.

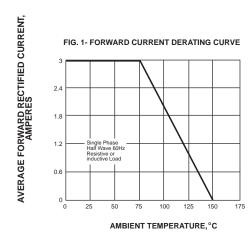
	SYMBOLS	FR 301G	FR 302G	FR 303G	FR 304G	FR 305G	FR 306G	FR 307G	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum average forward rectified current	Icaso	I _(AV) 3.0						А	
0.375"(9.5mm) lead length at Ta=75℃	I(AV)								
Peak forward surge current									
8.3ms single half sine-wave superimposed on	IFSM	200.0						Α	
rated load (JEDEC Method)									
Maximum instantaneous forward voltage at 3.0A	VF	1.3							V
Maximum DC reverse current Ta=25℃		IR 5.0 100.0						μА	
at rated DC blocking voltage Ta=100℃	IR								
Maximum reverse recovery time (NOTE 1)	trr		15	0		250	50	00	ns
Typical junction capacitance (NOTE 2)	Сл		60.0						
Typical thermal resistance (NOTE 3)	RθJA		20.0						°C/W
Operating junction and storage temperature range	ТЈ,Тѕтс	-55 to +150							°C

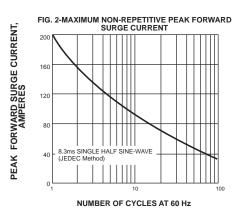
Note: 1. Reverse recovery condition IF=0.5A, IR=1.0A, Irr=0.25A

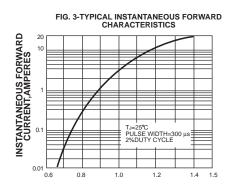
2.Measured at 1MHz and applied reverse voltage of 4.0V D.C. 3.Thermal resistance from junction to ambient at 0.375"(9.5mm)lead length,P.C.B. mounted

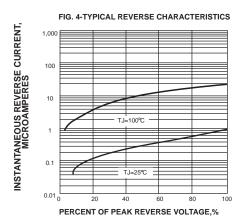


RATINGS AND CHARACTERISTIC CURVES FR301G THRU FR307G

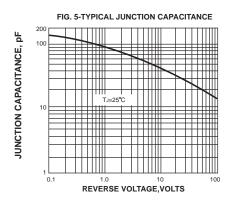


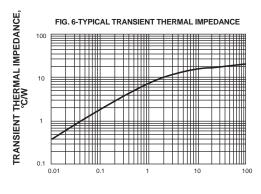












t,PULSE DURATION,sec.

