Shanghai Sinble Electronics Co.,Ltd

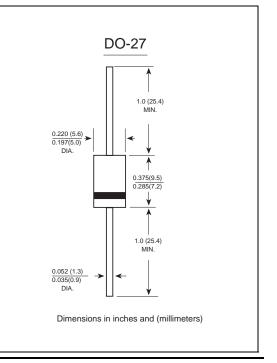
FR301 ~FR307 3.0Amp Fast Recovery Rectifiers

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-27 molded plastic body Terminals: Solder plated, 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 301	FR 302	FR 303	FR 304	FR 305	FR 306	FR 307	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 0.375"(9.5mm) lead length at TA =75°C	I(AV)	3.0							Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	Ifsm	200.0							Amps
Maximum instantaneous forward voltage at 3.0A	VF	1.3							Volts
Maximum DC reverse currentT A = 25° Cat rated DC blocking voltageTA=100^{\circ}C	IR	5.0 100.0							u A
Maximum reverse recovery time (Note 1)	Trr	150 250 500			00	ns			
Typical junction capacitance (Note 2)	Сл	60.0							pF
Typical thermal resistance (Note 3)	RqJA	40.0						°C/W	
Operating junction and storage temperature range	Tj,Tstg	-65 to +150							°C

Note1.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