

VOLTAGE RANGE: 50 --- 1000 V
CURRENT: 3.0 A

Fast Recovery Rectifiers

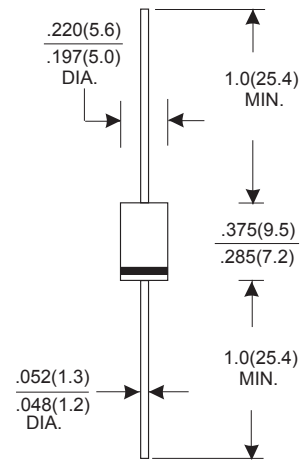
FEATURES

- Low Cost
- Low Leakage
- Low Forward Voltage Drop
- High Current Capability
- Fast Switching Speed For High Efficiency

MECHANICAL DATA

- Case style: DO-27 plastic molded
- Terminals: Lead solderable per MIL-STD-750, method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any

DO-27



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

TYPE NUMBER	Symbols	Units	FR301	FR302	FR303	FR304	FR305	FR306	FR307	
Maximum repetitive peak reverse voltage	VRRM	V	50	100	200	400	600	800	1000	
Maximum RMS voltage	VRMS	V	35	70	140	280	420	560	700	
Maximum DC blocking voltage	VDC	V	50	100	200	400	600	800	1000	
Maximum average forward rectified current 9.5mm lead length at T _A =55°C	I _{F(AV)}	A	3.0							
Peak Forward Surge Current, 8.3ms single half-wave superimposed on rated load (JEDEC method)	I _{FSM}	A	200							
Operating junction temperature range	T _J	°C	-65to+125							
Storage temperature range	T _{stg}	°C	-65to+150							
Maximum instantaneous forward voltage at 3.0A	V _F	V	1.3Max.							
Maximum DC reverse current at rated DC blocking voltage	T _a =25°C	I _{R1}	μA	10.0Max.						
	T _a =100°C	I _{R2}	μA	150.0Max						
Maximum reverse recovery time (test conditions: I _F =0.5A, I _R =1.0A, I _{RR} =0.25A)	T _{rr}	nS	150				250		500	