

FR301 THRU FR307

FAST RECOVERY 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

MECHANICAL DATA

Case: JEDEC DO-201AD molded plastic body

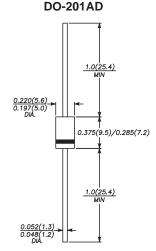
Terminals: Plated axial leads, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.04 ounce, 1.10 grams



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 301	FR 302	FR 303	FR 304	FR 305	FR 306	FR 307	UNITS
Vrrm	50	100	200	400	600	800	1000	V
VRMS	35	70	140	280	420	560	700	V
VDC	50	100	200	400	600	800	1000	V
Irana 3.0							А	
I(AV)	3.0							Α
IFSM 150.0							Α	
							ı	
VF	1.3						V	
5.0						μА		
IR			100.0					μΑ
trr		15	0		250	50	00	ns
Сл	60.0						pF	
Reja	40.0						°C/W	
Тл,Твтс	-55 to +150						°C	
	VRRM VRMS VDC I(AV) IFSM VF IR CJ RθJA	VRRM 50 VRMS 35 VDC 50 I(AV) IFSM VF IR CJ R@JA R@JA R@JA R@JA R@JA R@JA R. CJ R@JA R. CJ R@JA R. CJ R@JA R. CJ CJ CJ CJ CJ CJ CJ C	SYMBOLS 301 302 VRRM 50 100 VRMS 35 70 VDC 50 100 I(AV) IFSM VF IR trr 15 CJ Reja	SYMBOLS 301 302 303 303 304 305 303 305	VRM	SYMBOLS 301 302 303 304 305 VRRM 50 100 200 400 600 VRMS 35 70 140 280 420 VDC 50 100 200 400 600 I(AV) 3.0 IFSM 150.0 VF 1.3 IR 150 250 CJ 60.0 Rejja 40.0	SYMBOLS 301 302 303 304 305 306 VRRM 50 100 200 400 600 800 VRMS 35 70 140 280 420 560 VDC 50 100 200 400 600 800 I(AV) 3.0 IFSM 150.0 VF 1.3 IR 150 250 50 CJ 60.0 Rejja 40.0	SYMBOLS 301 302 303 304 305 306 307 V_{RRM} 50 100 200 400 600 800 1000 V_{RMS} 35 70 140 280 420 560 700 V_{DC} 50 100 200 400 600 800 1000 I(AV) 3.0 I_{SSM} 150.0 V_F 1.3 I_R 5.0 T_{Tr} 150 250 500 C_J 60.0 R_{\theta JA} 40.0

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

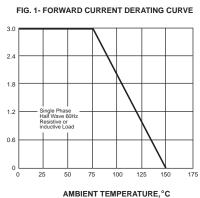
2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

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



RATINGS AND CHARACTERISTIC CURVES FR301 THRU FR307

AVERAGE FORWARD RECTIFIED CURRENT, AMPERES





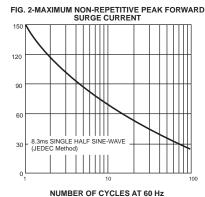


FIG. 3-TYPICAL INSTANTANEOUS FORWARD

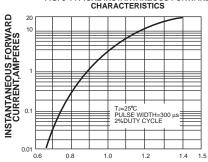
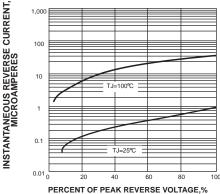
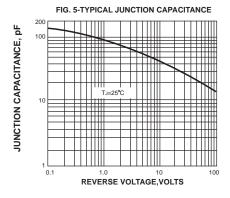


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

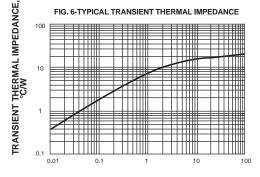




INSTANTANEOUS FORWARD VOLTAGE, VOLTS







t,PULSE DURATION,sec.

单击下面可查看定价,库存,交付和生命周期等信息

>>ZG(中鑫半导体)