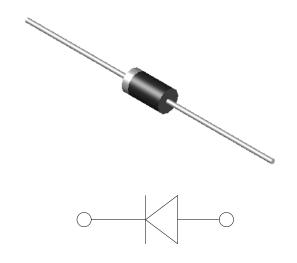




Fast Recovery Rectifier



Features

- High efficiency
- High current capability
- High reliability
- High surge current capability
- Low power loss
- Glass passivated chip junction
- Solder dip 275 °C max. 7 s, per JESD 22-B106

Mechanical Data

• Package: DO-201AD(DO-27)

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant

- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Polarity:Color band denotes cathode end

■Maximum Ratings (Ta=25°C Unless otherwise specified)

			,'						
PARAMETER	SYMBOL	UNIT	FR301	FR302	FR303	FR304	FR305	FR306	FR307
Device marking code			FR301	FR302	FR303	FR304	FR305	FR306	FR307
Repetitive Peak Reverse Voltage	VRRM	٧	50	100	200	400	600	800	1000
Average Forward Current @60Hz sine wave, Resistance load, Ta=50°C	IF(AV)	А	3.0						
Forward Surge Current(Non-repetitive) @60Hz Half-sine wave, 1 cycle, Ta=25°C	IFSM	А	125						
Storage Temperature	T _{stg}	$^{\circ}$	-55 ~+150						
Junction Temperature	Tj	$^{\circ}$	-55~+150						

■Electrical Characteristics (Ta=25°C Unless otherwise specified)

DADAMETED.				ED204	ED200	ED202	ED204	ED205	ED20C	ED207
PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	FR301	FR302	FR303	FR304	FR305	FR306	FR307
Maximum instantaneous forward voltage drop per diode	V _{FM}	V	IFM=3.0A	1.3						
Maximum DC reverse current at rated DC blocking voltage	I _{RRM1}	μA	T _a =25℃	2.5						
per diode	I _{RRM2}	μΛ	T _a =100℃	100						
Reverse Recovery time	t _r	ns	I _F =0.5A I _R =1A I _{RR} =0.25A				250 500		00	
Typical junction capacitance	Cj	pF	Measured at 1MHZ and Applied Reverse Voltage of 4.0 V.D.C.							

■Thermal Characteristics (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	FR301	FR302	FR303	FR304	FR305	FR306	FR307
Thermal Resistance(Typical)	$R_{\theta_{J-A}}$	°C/W				30			

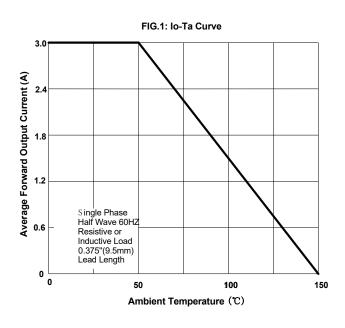


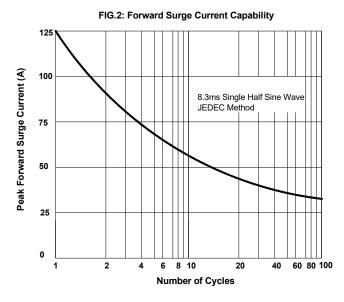
FR301 THRU FR307

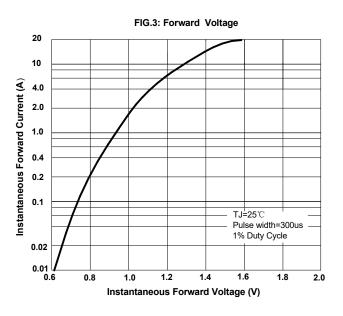
■Ordering Information (Example)

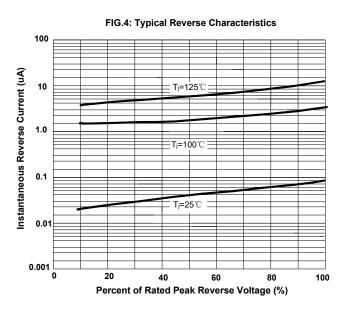
PREFERED P/N PACKAGE CO		PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE	
	FR301~FR307	D1	Approximate 1.05	1250	1250	12500	Таре	

■ Characteristics (Typical)





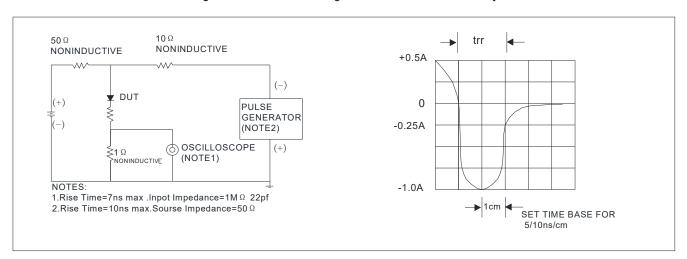




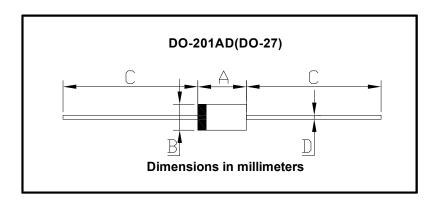


FR301 THRU FR307

FIG.5: Diagram of circuit and Testing wave form of reverse recovery time



■ Outline Dimensions



DO-201AD(DO-27)						
Dim	Min	Max				
Α	8.50	9.50				
В	5.00	5.60				
С	25.4	/				
D	1.20	1.30				



FR301 THRU FR307

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The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

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