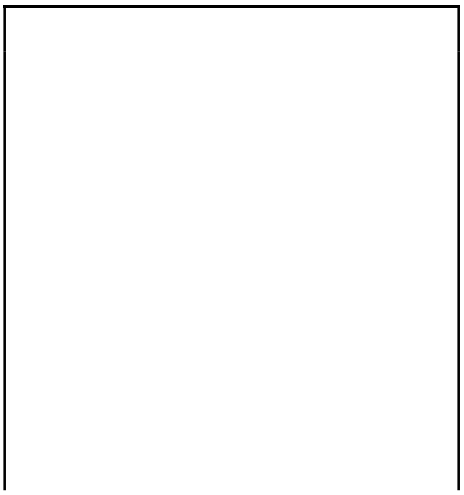
Fast Recovery Silicon Rectifiers

Reverse Voltage - 100 to 1000 V
Forward Current 5 A



DO-201A

FEATURES

- For surface mounted applications
- Low profile package
- Open Junction chip
- Ideal for automated placement
- Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

- Case: DO-201AD/DO-27
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.98 g / 0.0345oz

Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.
Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	FR502G	FR503G	FR504G	FR505G	FR506G	FR507G	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at T_c = 100 °C	$IF_{(AV)}$	5.0						A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I_{FSM}	200.0						A
Maximum Instantaneous Forward Voltage at 5.0A	V_F	1.28						V
Maximum DC Reverse Current T_a = 25 °C at Rated DC Blocking Voltage T_a=125 °C	I_R	10 500						
Maxinum reverse recovery time(Note 1)	Trr	150			250	500		nS
Typical Junction Capacitance(Note 2)	C_j	60.0						pF
Typical Thermal Resistance	R	40.0						°C/W
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150						°C

1 **Measured at 1 MHz and applied reverse voltage of 4 V D.C**

2 **Reverse recovery time test condition: IF=0.5A IR=1.0A Irr=0.25A**

FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

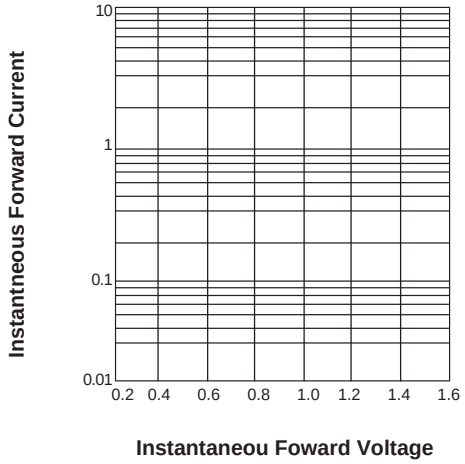
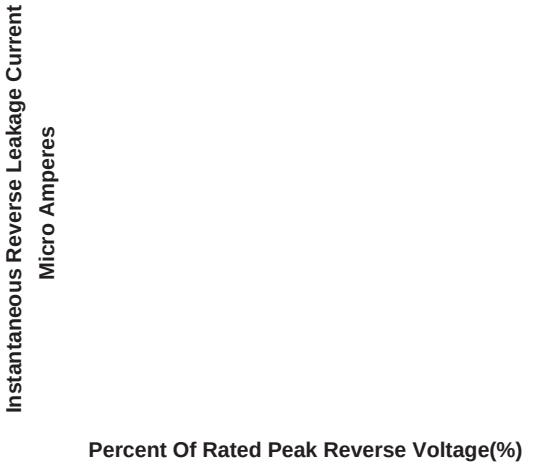


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



Ordering information

Package	Packing Description	Packing Quantity
DO-201AD/DO-27	bulk	
	ammo pack	1000PCS/1250PCS/Inner Box 10000PCS/12500PCS/Carton

Package Dimensions

DO-201AD/DO-27

Dim.	Millimeter(mm)		INCHES	
	Min.	Max.	Min.	Max.
A	-	9.50	-	0.370
B	-	6.40	-	0.250
C	1.20	1.30	0.048	0.052

The information presented in this document is for reference only. GuangDong Youfeng Microelectronics