

#### **Fast Recovery Silicon Rectifiers**

Reverse Voltage - 100 to 1000 V Forward Current - 6 A

# FEATURES

♦For surface mounted applications

♦Low profile package

**♦**Open Junction chip

♦Ideal for automated placement

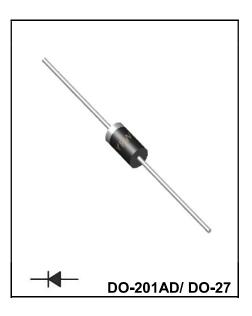
♦Lead free in comply with EU RoHS 2011/65/EU directives

#### **MECHANICAL DATA**

♦Case: DO-201AD/DO-27

♦Terminals: Solderable per MIL-STD-750, Method 2026

♦ Approx. Weight: 0.98g / 0.0345oz



#### **Maximum Ratings and Electrical characteristics**

Ratings at 25 °C ambient temperature unless otherwise specified.

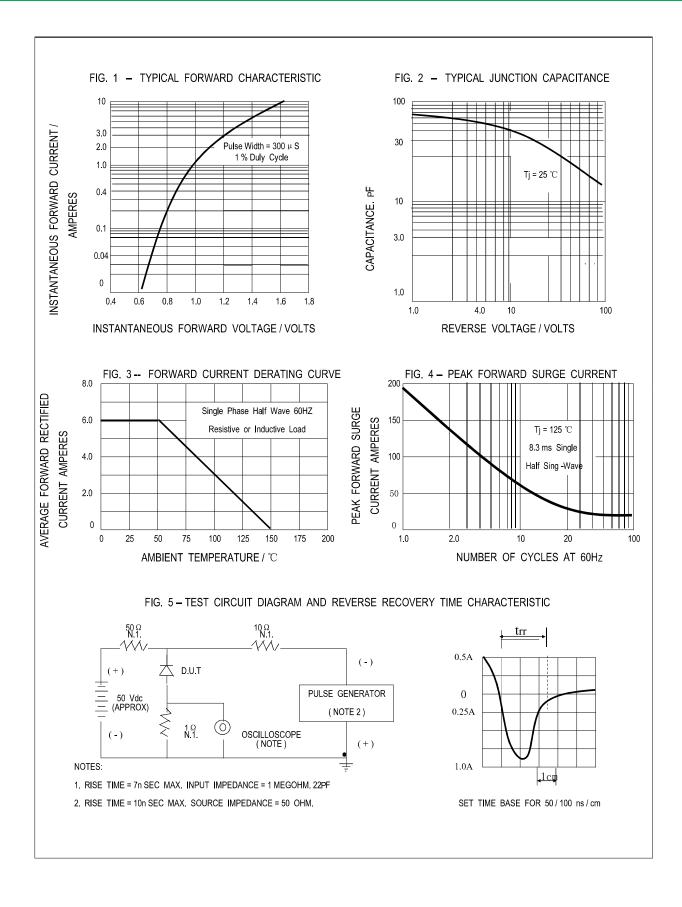
Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	FR602	FR603	FR604	FR605	FR606	FR607	Units
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	100	200	400	600	800	1000	V
Maximum RMS voltage	V <sub>RMS</sub>	70	140	280	420	560	700	٧
Maximum DC Blocking Voltage	V <sub>DC</sub>	100	200	400	600	800	1000	<b>'</b>
Maximum Average Forward Rectified Current at T <sub>A</sub> = 75 °C	IF <sub>(AV)</sub>	6.0					Α	
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load T <sub>J</sub> = 125 °C	I <sub>FSM</sub>	250.0					Α	
Maximum Instantaneous Forward Voltage at 6.0A	V <sub>F</sub>	1.3					v	
Maximum DC Reverse Current T <sub>a</sub> = 25 °C at Rated DC Blocking Voltage T <sub>a</sub> =100 °C	I <sub>R</sub>	5.0 100					μА	
Maxinum reverse recovery time <sup>(Note 1)</sup>	Trr	150 250 500		00	nS			
Typical Junction Capacitance (Note 2)	Cj	60.0					рF	
Typical Thermal Resistance	R <sub>0JA</sub>	20.0					°C/W	
Operating and Storage Temperature Range	T <sub>j</sub> , T <sub>stg</sub>	-65 ~ +150			°C			

<sup>(1)</sup> Measured at 1 MHz and applied reverse voltage of 4 V D.C

<sup>(2)</sup> Reverse recovery time test condition: IF=0.5A IR=1.0A Irr=0.25A





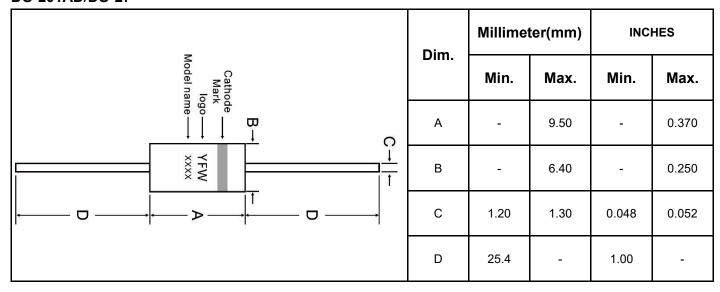


# **Ordering information**

Package	Packing Description	Packing Quantity				
DO-201AD/DO-27	bulk	250PCS/500PCS/Inner Box 12500PCS/Carton				
DO-201AD/DO-27	ammo pack	1000PCS/1250PCS/Inner Box 10000PCS/12500PCS/Carton				

# **Package Dimensions**

### DO-201AD/DO-27





### **Disclaimer**

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