



SYNSEMI SEMICONDUCTOR

**1N4152** - DO-35 Axial-Leaded Package  
**1N4152M** - DO-34 Axial-Leaded Package  
**LL4152** - LL-34 Surface Mount Package

**Device Electrical Characteristics** (TA = 25°C unless otherwise noted.)

Symbol	Parameter	Test Condition	Limits		Unit
			Min	Max	
<b>B<sub>V</sub></b>	Breakdown Voltage	I <sub>R</sub> =5μA	40	---	Volts
<b>I<sub>R</sub></b>	Reverse Leakage Current	V <sub>R</sub> =30V	---	50	nA
<b>V<sub>F</sub></b>	Forward Voltage	I <sub>F</sub> =100μA I <sub>F</sub> =250μA I <sub>F</sub> =1mA I <sub>F</sub> =2mA I <sub>F</sub> =10mA I <sub>F</sub> =20mA	0.490 0.530 0.590 0.620 0.700 0.740	0.550 0.590 0.670 0.700 0.810 0.880	Volts
<b>T<sub>RR</sub></b>	Reverse Recovery Time	I <sub>F</sub> =I <sub>R</sub> =10mA R <sub>L</sub> =100Ω I <sub>RR</sub> =1mA	---	4	nS
<b>T<sub>RR</sub></b>	Reverse Recovery Time	V <sub>R</sub> =6.0V I <sub>F</sub> =10mA R <sub>L</sub> =100Ω I <sub>RR</sub> =1mA	---	2	nS
<b>C</b>	Capacitance	V <sub>R</sub> =0V, f=1MHz	---	2	pF