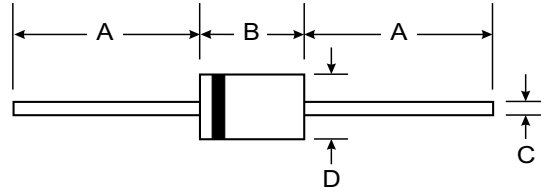


**Features**

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Fast Switching Time
- Low Reverse Capacitance



**Mechanical Data**

- Case: DO-35, Glass
- Leads: Solderable per MIL-STD-202, Method 208
- Marking: Type Number
- Polarity: Cathode Band
- Weight: 0.13 grams (approx.)

DO-35		
Dim	Min	Max
A	25.40	—
B	—	4.00
C	—	0.60
D	—	2.00
All Dimensions in mm		

**Maximum Ratings @ T<sub>A</sub> = 25°C unless otherwise specified**

Characteristic	Symbol	1N6263	Unit
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	60	V
Working Peak Reverse Voltage	V <sub>RWM</sub>		
DC Blocking Voltage	V <sub>R</sub>		
RMS Reverse Voltage	V <sub>R(RMS)</sub>	42	V
Forward Continuous Current	I <sub>FM</sub>	15	mA
Non-Repetitive Peak Forward Surge Current @ t ≤ 1.0s @ t = 10μs	I <sub>FSM</sub>	50 2.0	mA A
Power Dissipation (Note 1)	P <sub>d</sub>	400	mW
Thermal Resistance, Junction to Ambient Air (Note 1)	R <sub>θJA</sub>	300	°C/W
Operating Temperature Range	T <sub>j</sub>	-55 to +125	°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150	°C

**Electrical Characteristics @ T<sub>A</sub> = 25°C unless otherwise specified**

Characteristic	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 2)	V <sub>(BR)R</sub>	60	—	—	V	I <sub>R</sub> = 10μA
Forward Voltage Drop (Note 2)	V <sub>F</sub>	—	—	0.41 1.0	V	I <sub>F</sub> = 1.0mA I <sub>F</sub> = 15mA
Reverse Leakage Current (Note 2)	I <sub>R</sub>	—	—	200	nA	V <sub>R</sub> = 50V
Junction Capacitance	C <sub>j</sub>	—	—	2.2	pF	V <sub>R</sub> = 0V, f = 1.0MHz
Reverse Recovery Time	t <sub>rr</sub>	—	—	1.0	ns	I <sub>F</sub> = I <sub>R</sub> = 5.0mA, I <sub>rr</sub> = 0.1 x I <sub>R</sub> , R <sub>L</sub> = 100Ω

- Notes:
1. Valid provided that leads are kept at ambient temperature.
  2. Short duration test pulses used to minimize self-heating effect.

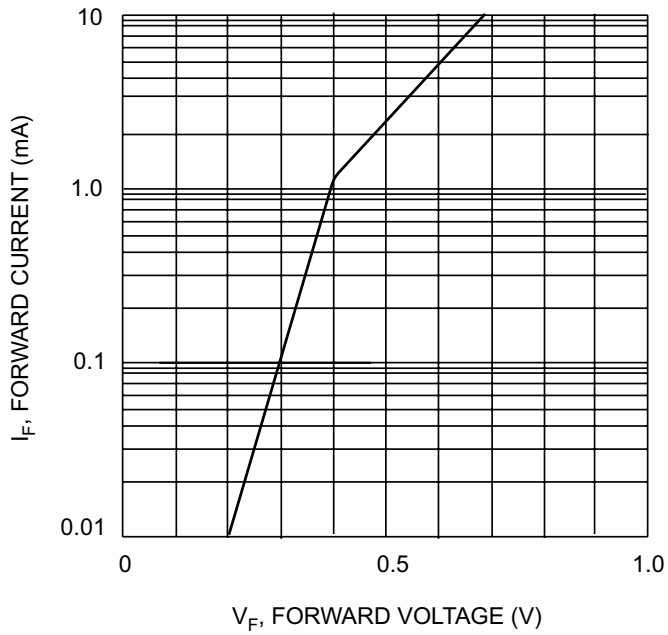


Fig. 1 Typical Forward Characteristics

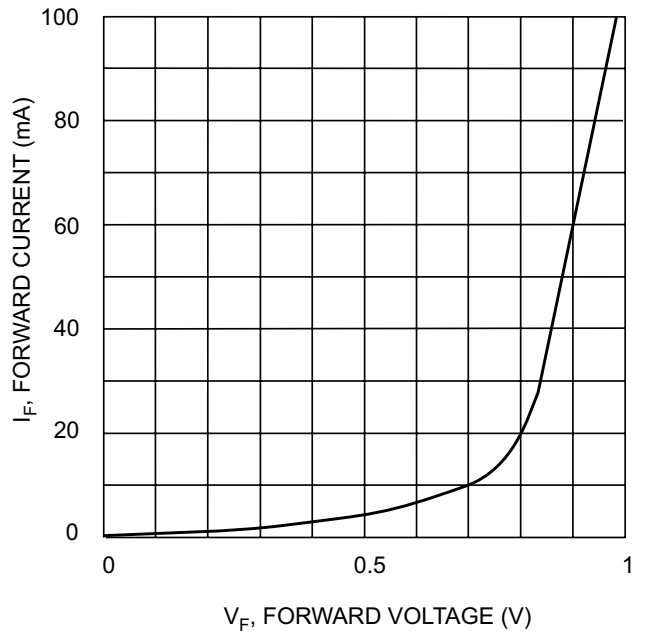


Fig. 2 Typical Forward Characteristics

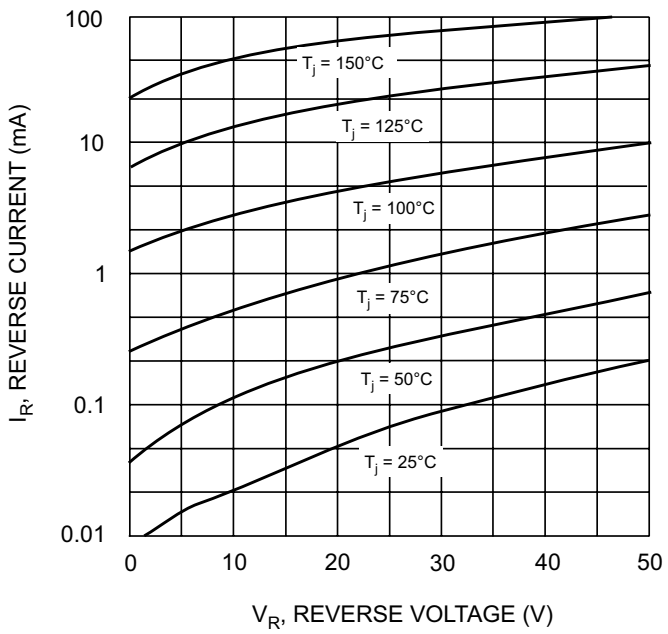


Fig. 3 Typical Reverse Characteristics

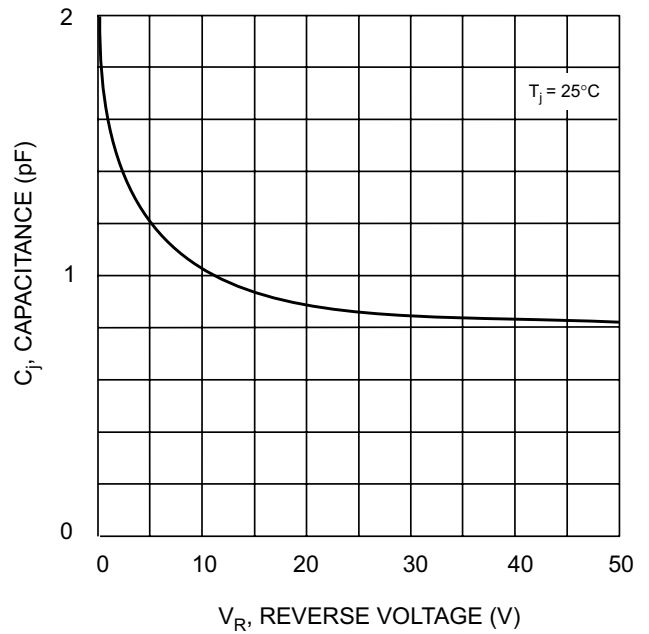


Fig. 4 Typ. Junction Capacitance vs Reverse Voltage