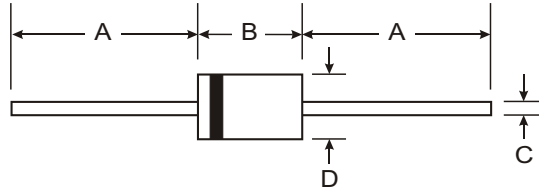


Features

- 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_A = 25°C unless otherwise specified

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

Electrical Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 2)	V _{(BR)R}	60	—	—	V	I _R = 10μA
Forward Voltage Drop (Note 2)	V _F	—	—	0.41 1.0	V	I _F = 1.0mA I _F = 15mA
Reverse Leakage Current (Note 2)	I _R	—	—	200	nA	V _R = 50V
Junction Capacitance	C _j	—	—	2.2	pF	V _R = 0V, f = 1.0MHz
Reverse Recovery Time	t _{rr}	—	—	1.0	ns	I _F = I _R = 5.0mA, I _{rr} = 0.1 x I _R , R _L = 100Ω

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

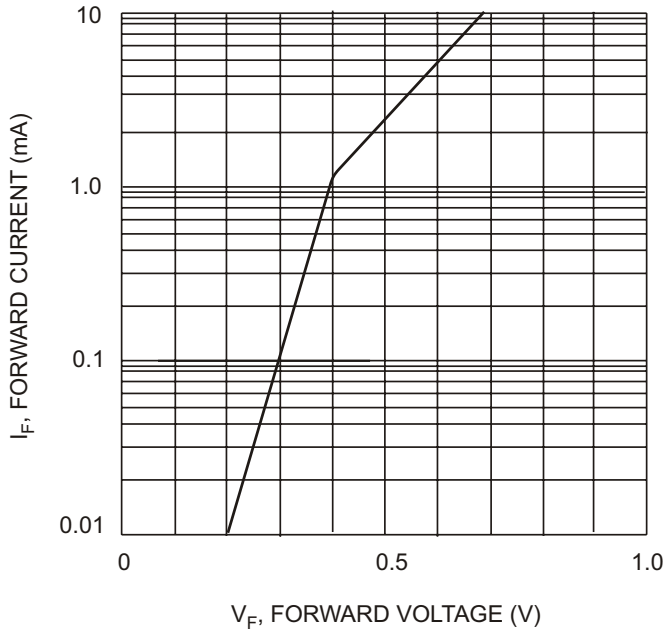


Fig. 1 Typical Forward Characteristics

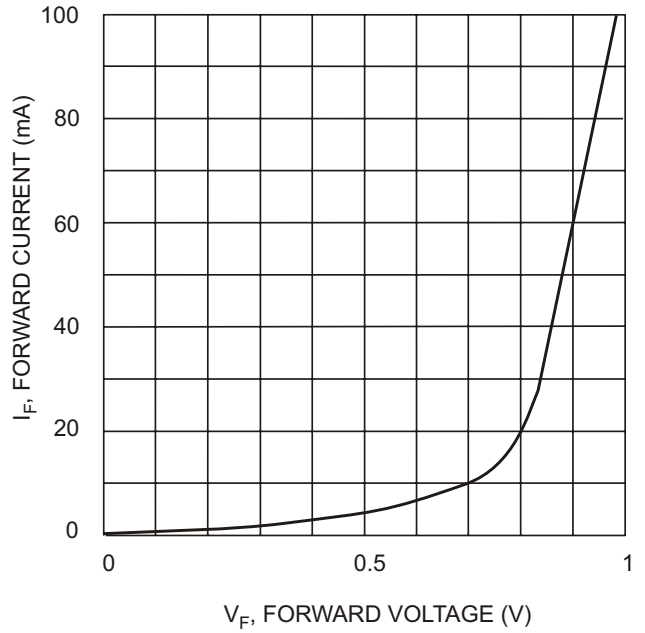


Fig. 2 Typical Forward Characteristics

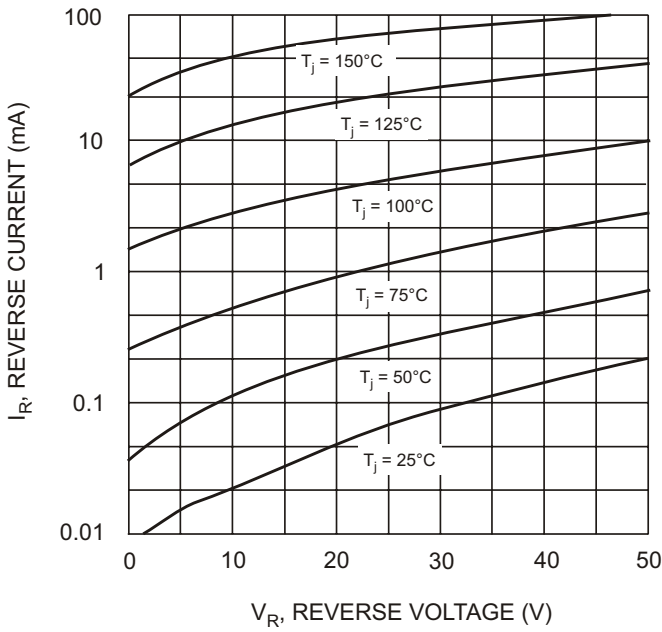


Fig. 3 Typical Reverse Characteristics

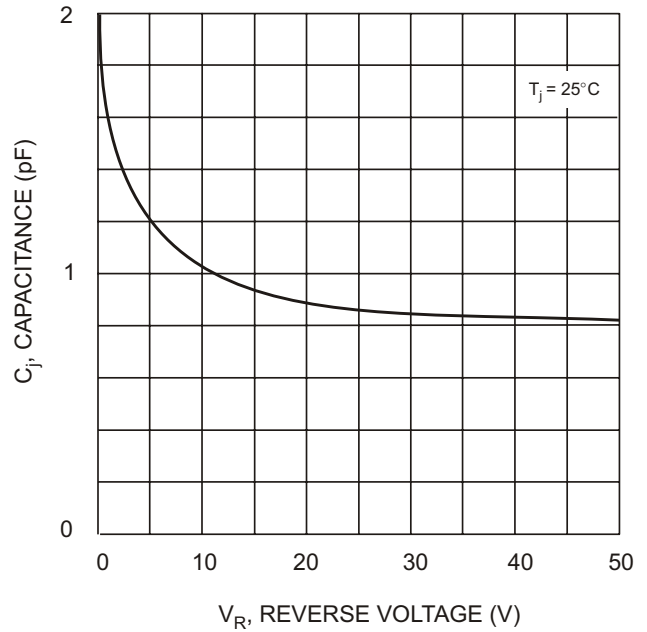


Fig. 4 Typ. Junction Capacitance vs Reverse Voltage