1N6263

SMALL SIGNAL SCHOTTKY DIODE

Features

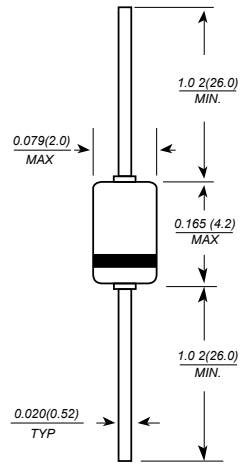
- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Fast Switching Time
- Low Reverse Capacitance

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.)

RoHS COMPLIANT

DO-35(GLASS)



Dimensions in millimeters

Maximum Ratings T_A = 25°C unless otherwise specified

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	60	V
Power Dissipation (Infinite Heatsink)	P_D	400(1)	mW
Maximum Single Cycle Surge 10 μs Square Wave	I_{FSM}	2	A
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	0.3(1)	°C/mW
Junction Temperature	T_J	125(1)	°C
Storage temperature range	T_S	-55 to + 150 (1)	°C

Electrical Characteristics (T_J = 25°C unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Breakdown Voltage	$V_{(BR)R}$	I_R = 10 μA	60	-	-	V
Reverse Current	I_R	V_R = 50 V	-	-	200	nA
Forward Voltage Drop	V_F	I_F = 1mA I_F = 15mA	- -	- -	0.41 1.0	V
Diode Capacitance	Cd	V_R = 0 V, f = 1MHz	-	-	2.2	pF
Reverse Recovery Time	Trr	I_F = I_R = 5mA, recover to 0.1I_R	-	-	1	ns

Note:

(1) Valid provided that leads at a distance of 4mm from case are kept at ambient temperature..

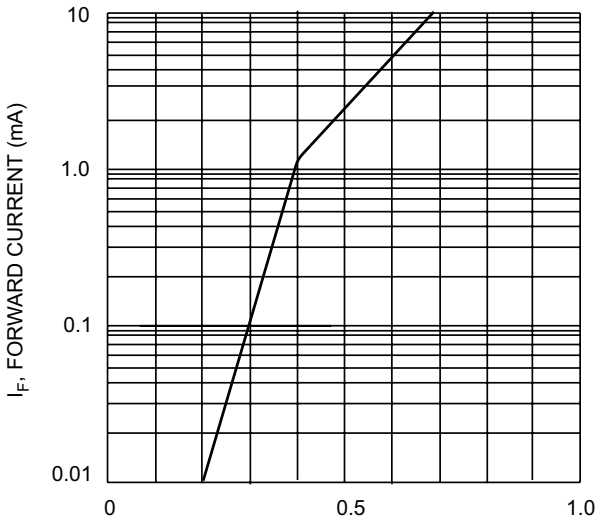


Fig. 1 Typical Forward Characteristics

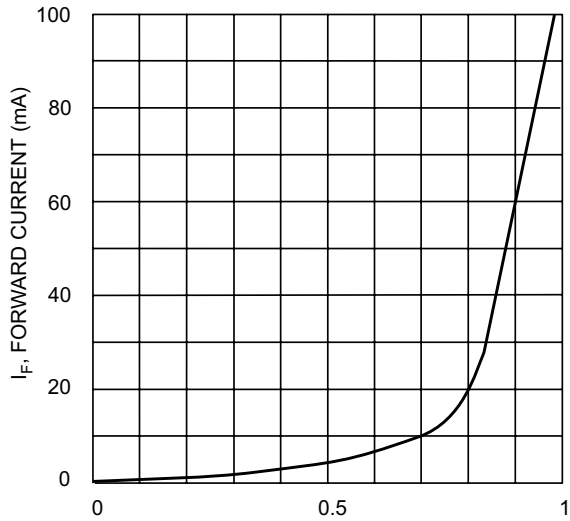


Fig. 2 Typical Forward Characteristics

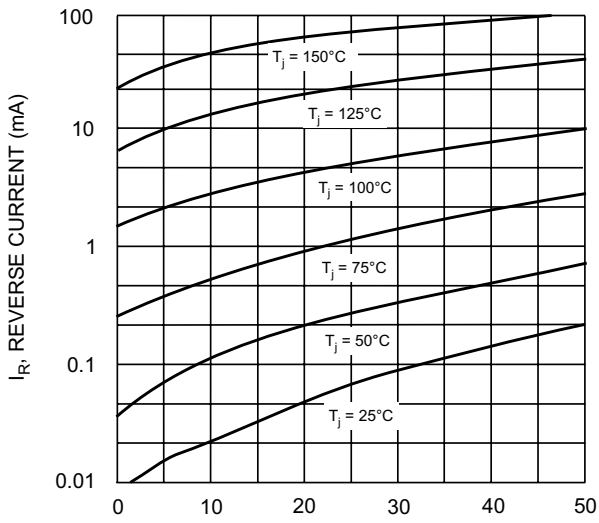


Fig. 3 Typical Reverse Characteristics

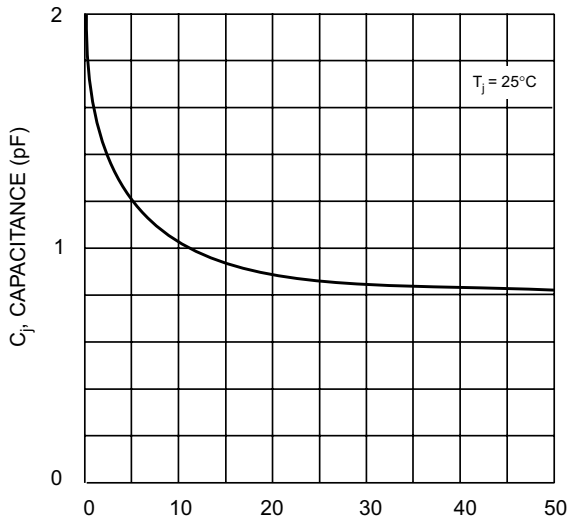


Fig. 4 Typ. Junction Capacitance vs Reverse Voltage