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NTE633

Silicon Rectifier Diode High Speed Switching SOD-323 Type Package

Description:

The NTE631 is a high-speed switching diode in a very small, rectangular SOD-323 type SMD package.

Features:

- Very Small Plastic SMD Package
- High Switching Speed: 4ns Max.
- Continuous Reverse Voltage: 100V Max.
- Repetitive Peak reverse Voltage: 100V Max.
- Repetitive Peak Forward Current: 500mA Max.

Applications:

- Surface Mount Fast Switching Diode

Absolute Maximum Ratings: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

DC Reverse Voltage, V_R 100V
 Forward Current, I_F 300mA
 Power Dissipation, P_D 200mW
 Operating Junction Temperature Range, T_J -65° to $+150^\circ\text{C}$
 Storage Temperature Range, T_{stg} -65° to $+150^\circ\text{C}$

Electrical Characteristics: ($T_A = +25^\circ\text{C}$, unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Breakdown Voltage	$V_{(BR)R}$	$I_R = 100\mu\text{A}$	100	-	-	V
Forward Voltage	V_F	$I_F = 1.0\text{mA}$	0.62	-	0.715	V
		$I_F = 10\text{mA}$	-	-	0.855	V
		$I_F = 50\text{mA}$	-	-	1.0	V
		$I_F = 150\text{mA}$	-	-	1.25	V
Reverse Current	I_R	$V_R = 75\text{V}$	-	-	1.0	μA
		$V_R = 25\text{V}$	-	-	0.03	μA
Capacitance Between Terminals	C_T	$f = 1\text{MHz}, V_R = 0$	-	-	1.5	pF
Reverse Recovery Time	t_{rr}	$I_F = I_R = 10\text{mA}, R_L = 100\Omega$	-	-	4	ns



