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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°C unless otherwise specified)

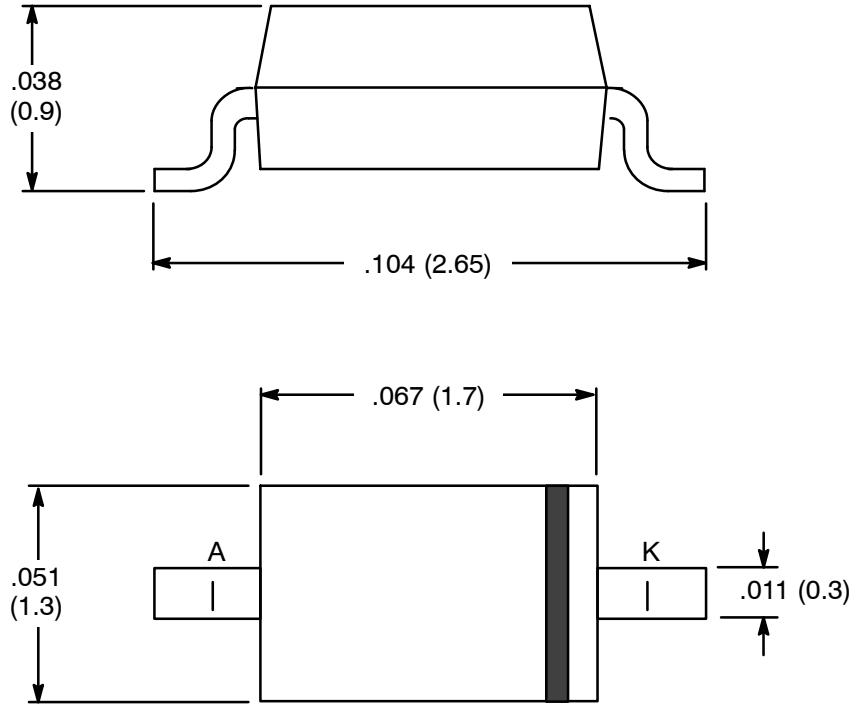
DC Reverse Voltage, V_R 100V
Forward Current, I_F 300mA
Power Dissipation, P_D 200mW
Operating Junction Temperature Range, T_J . . . . . –65° to +150°C
Storage Temperature Range, T_{stg} . . . . . –65° to +150°C

Electrical Characteristics: (T_A = +25°C, unless otherwise specified)

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

Rev. 3–22

RoHS


.038
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