

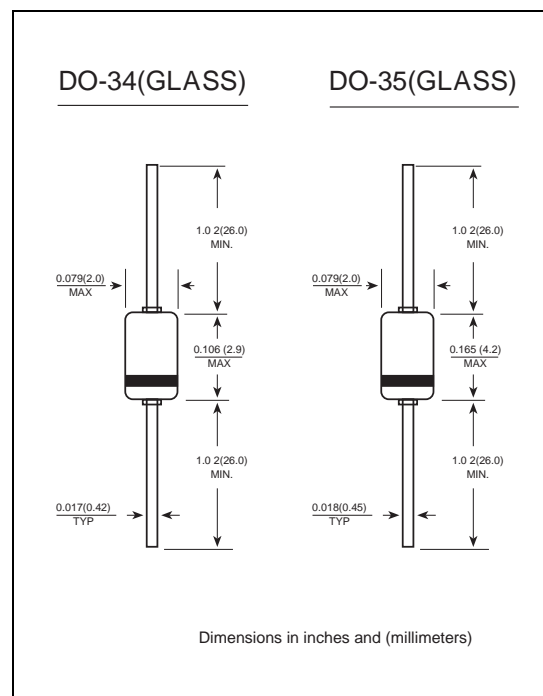
1N4446-1N4454
Small Signal Switching Diode

Features

- ◆ Silicon epitaxial planar diode
- ◆ Switching diodes
- ◆ 400mw-500mw power dissipation
- ◆ High temperature soldering guaranteed
250 C/10 seconds,0.375" (9.5mm) lead length,
5 lbs. (2.3kg) tension

Mechanical Data

Case: DO-34\DO-35 glass sealed envelope.
Terminals : Plated axial leads, solderable per MIL-STD-750,
Method 2026
Polarity : Color band denotes cathode end
Mounting Position : Any
Weight :0.003 ounce, 0.09 grams(DO-34)
0.005 ounce, 0.14 grams(DO-35)



Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz,resistive or inductive load,
for capacitive load current derate by 20%.

Type Number	SYMBOL	1N4446	1N4447	1N4448	1N4449	1N4450	1N4451	1N4453	1N4454	units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	100	100	100	100	40	40	30	75	V
Maximum Average rectified Current	$I_{F(AV)}$	150	150	150	150	200	150	150	150	mA
Maximum power dissipation $t_{amb}=25^{\circ}C$	P_{tot}	500	500	500	500	400	400	400	400	mW
Maximum Forward Voltage	V_F	1.0/30	1.0/20	1.0/10	0.63/5	1.0/200	0.5/100	0.55/10	1.0/10	V/mA
Maximum reverse current	I_R	5000/75	5000/75	5000/75	5000/75	50/30	50000/30	50000/20	100/50	nA/V
Maximum reverse recovery time	t_{rr}	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	nS
Maximum junction capacitance	C_J	4.0								pF
Storage Temperature	T_{STG}	-55 to +175								°C
Operation Junction Temperature	T_J	-55 to +175								°C