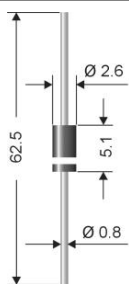


1N 4001...1N 4007, 1N 4007-1300



Axial lead diode

Standard silicon rectifier diodes

1N 4001...1N 4007, 1N 4007-1300

Forward Current: 1 A

Reverse Voltage: 50 to 1300 V

Features

- Max. solder temperature: 260°C
- Plastic material has UL classification 94V-0

Mechanical Data

- Plastic case DO-41 / DO-204AL
- Weight approx.: 0.4 g
- Terminals: plated terminals solderable per MIL-STD-750
- Mounting position: any
- Standard packaging: 5000 pieces per ammo

1) Valid, if leads are kept at ambient temperature at a distance of 10 mm from case

2) $I_F = 1A$, $T_J = 25^\circ C$

3) $T_A = 25^\circ C$

Type	Repetitive peak reverse voltage V_{RRM} V	Surge peak reverse voltage V_{RSM} V	Max. reverse recovery time $I_F = -A$ $I_R = -A$ $I_{RR} = -A$ t_{rr} ns	Max. forward voltage $V_F^{2)}$
1N 4001	50	50	-	1,1
1N 4002	100	100	-	1,1
1N 4003	200	200	-	1,1
1N 4004	400	400	-	1,1
1N 4005	600	600	-	1,1
1N 4006	800	800	-	1,1
1N 4007	1000	1000	-	1,1
1N 4007-1300	1300	1300	-	1,1

Absolute Maximum Ratings

$T_c = 25^\circ C$ unless otherwise specified

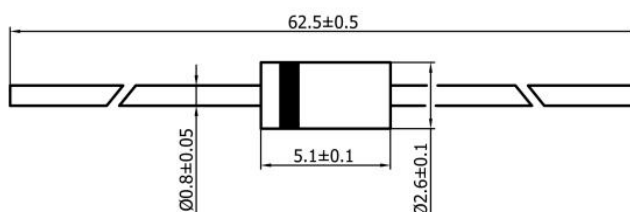
Symbol	Conditions	Values	Units
I_{FAV}	Max. averaged fwd. current, R-load, $T_A = 75^\circ C$ 1)	1	A
I_{FRM}	Repetitive peak forward current $f > 15 Hz$ 1)	10	A
I_{FSM}	Peak forward surge current 50 Hz half sinus-wave 3)	50	A
i^2t	Rating for fusing, $t < 10 ms$ 3)	12,5	A ² s
R_{thA}	Max. thermal resistance junction to ambient 1)	45	K/W
R_{thT}	Max. thermal resistance junction to terminals 1)	-	K/W
T_J	Operating junction temperature	-50...+175	°C
T_s	Storage temperature	-50...+175	°C

Characteristics

$T_c = 25^\circ C$, unless otherwise specified

Symbol	Conditions	Values	Units
I_R	Maximum leakage current, $T_J = 25^\circ C$; $V_R = V_{RRM}$	<5	µA
	$T_J = 100^\circ C$; $V_R = V_{RRM}$	<50	µA
C_J	Typical junction capacitance (at MHz and applied reverse voltage of V)	-	pF
Q_{rr}	Reverse recovery charge ($U_R = V$; $I_F = A$; $dI_F/dt = A/ms$)	-	µC
E_{RSM}	Non repetitive peak reverse avalanche energy ($I_R = mA$; $T_J = ^\circ C$; inductive load switched off)	-	mJ

Dimensions in mm



case: DO-41 / DO-204AL

1N 4001...1N 4007, 1N 4007-1300

