

Axial lead diode

Standard silicon rectifier diodes

1N 5391...1N 5399

Forward Current: 1,5 A

Reverse Voltage: 50 to 1000 V

Features

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

Mechanical Data

- Plastic case DO-15 / DO-204AC
- Weight approx.: 0.4 g
- Terminals: plated terminals solderable per MIL-STD-750
- Mounting position: any
- Standard packaging: 4000 pieces per ammo

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

2) $I_F = 1,5A$, $T_J = 25^\circ C$

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 5391	50	100	-	1,3
1N 5392	100	200	-	1,3
1N 5393	200	300	-	1,3
1N 5394	300	400	-	1,3
1N 5395	400	500	-	1,3
1N 5396	500	600	-	1,3
1N 5397	600	800	-	1,3
1N 5398	800	1000	-	1,3
1N 5399	1000	1200	-	1,3

Absolute Maximum Ratings

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

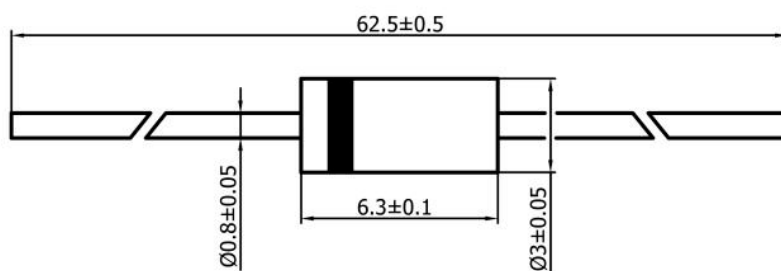
Symbol	Conditions	Values	Units
I_{FAV}	Max. averaged fwd. current, R-load, $T_A = 50^\circ C$ ¹⁾	1,5	A
I_{FRM}	Repetitive peak forward current $f > 15 Hz$ ¹⁾	10	A
I_{FSM}	Peak forward surge current 50 Hz half sinus-wave ³⁾	50	A
i^2t	Rating for fusing, $t < 10 ms$ ³⁾	12,5	A ² s
R_{thA}	Max. thermal resistance 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, $T_J = 25^\circ C$; $V_R = V_{RRM}$	<10	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-15 / DO-204AC

