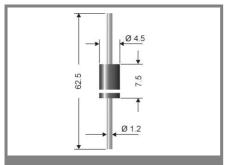
## BY 251...BY 255



### **Axial lead diode**

# Standard silicon rectifier diodes

BY 251...BY 255

**Forward Current: 3 A** 

Reverse Voltage: 200 to 1300 V

#### **Features**

• Max. solder temperature: 260°C

 Plastic material has UL classification 94V-0

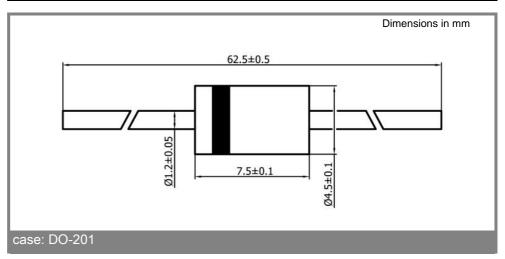
#### **Mechanical Data**

- Plastic case DO-201
- Weight approx.: 1 g
- Terminals: plated terminals solderable per MIL-STD-750
- Mounting position: any
- Standard packaging: 1700 pieces per ammo
- Valid, if leads are kept at ambient temperature at a distance of 10 mm from
- 2) I<sub>F</sub>=3A, T<sub>i</sub>=25°C
- 3) T<sub>A</sub> = 25 °C

Туре	Repetitive peak reverse voltage	Surge peak reverse voltage	Max. reverse recovery time	Max. forward voltage
			I <sub>F</sub> = - A I <sub>R</sub> = - A I <sub>RR</sub> = - A	
	V <sub>RRM</sub> V	V <sub>RSM</sub> V	t <sub>rr</sub>	V <sub>F</sub> <sup>2)</sup>
BY 251	200	200	-	1,1
BY 252	400	400	-	1,1
BY 253	600	600	-	1,1
BY 254	800	800	-	1,1
BY 255	1300	1300	-	1,1

Absolute Maximum Ratings Tc = 25°C, unless otherwise specified					
Symbol	Conditions	Values	Units		
$I_{FAV}$	Max. averaged fwd. current, R-load, T <sub>A</sub> = 50 °C <sup>1)</sup>	3	Α		
I <sub>FRM</sub>	Repetitive peak forward current f > 15 Hz <sup>1)</sup>	20	Α		
I <sub>FSM</sub>	Peak forward surge current 50 Hz half sinus-wave <sup>3)</sup>	100	Α		
i²t	Rating for fusing, t < 10 ms <sup>3)</sup>	50	A²s		
R <sub>thA</sub>	Max. thermal resistance junction to ambient 1)	25	K/W		
R <sub>thT</sub>	Max. thermal resistance junction to terminals 1)	-	K/W		
T <sub>j</sub>	Operating junction temperature	-50+150	°C		
T <sub>s</sub>	Storage temperature	-50+175	°C		

Characte	naracteristics Tc = 25°C, unless otherwise spe		ecified
Symbol	Conditions	Values	Units
I <sub>R</sub>	Maximum leakage current, $T_j = 25 ^{\circ}\text{C}$ ; $V_R = V_{RRM}$	<20	μΑ
	$T_j = {^{\circ}C}; V_R = V_{RRM}$		
С	Typical junction capacitance (at MHz and applied reverse voltage of V)	-	pF
Q <sub>rr</sub>	Reverse recovery charge $(U_R = V; I_F = A; dI_F/dt = A/ms)$	-	μC
E <sub>RSM</sub>	Non repetitive peak reverse avalanche energy ( $I_R = mA$ ; $T_j = ^{\circ}C$ ; inductive load switched off)	-	mJ



# BY 251...BY 255

