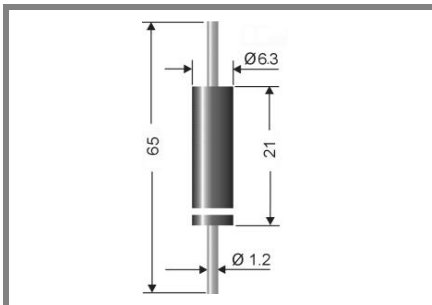


BY4, BY6



Axial lead diode

High voltage silicon rectifier diodes

BY4, BY6

Forward Current: 1 A

Reverse Voltage: 4000 to 6000 V

Features

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

Mechanical Data

- Plastic case 6,3 x 21 [mm]
- Weight approx.: 1,9 g
- Terminals: plated terminals solderable per MIL-STD-750
- Mounting position: any
- Standard packaging: 100 pieces per ammo

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

2) $I_F = 1 \text{ A}$, $T_j = 25 \text{ °C}$

3) $T_A = 25 \text{ °C}$

Type	Repetitive peak reverse voltage	Surge peak reverse voltage	Max. reverse recovery time	Max. forward voltage
	V_{RRM} V	V_{RSM} V	$I_F = -A$ $I_R = -A$ $I_{RR} = -A$ t_{rr} ns	$V_F^{2)}$
BY 4	4000	4000	-	4,0
BY 6	6000	6000	-	6,0

Absolute Maximum Ratings

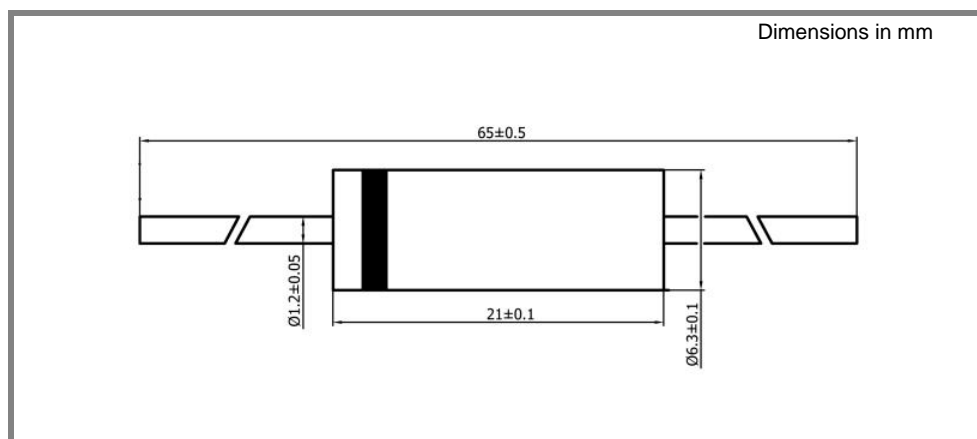
$T_c = 25 \text{ °C}$, unless otherwise specified

Symbol	Conditions	Values	Units
I_{FAV}	Max. averaged fwd. current, R-load, $T_A = 25 \text{ °C}$ ¹⁾	1	A
I_{FRM}	Repetitive peak forward current $f > \text{Hz}$ ¹⁾		A
I_{FSM}	Peak forward surge current 50 Hz half sinus-wave ³⁾	100	A
i^2t	Rating for fusing, $t < 10 \text{ ms}$ ³⁾	50	A ² s
R_{thA}	Max. thermal resistance junction to ambient ¹⁾	25	K/W
R_{thT}	Max. thermal resistance junction to terminals ¹⁾		K/W
T_j	Operating junction temperature	-50...+150	°C
T_s	Storage temperature	-50...+150	°C

Characteristics

$T_c = 25 \text{ °C}$, unless otherwise specified

Symbol	Conditions	Values	Units
I_R	Maximum leakage current, $T_j = 25 \text{ °C}$; $V_R = V_{RRM}$	<1	µA
	$T_j = 100 \text{ °C}$; $V_R = V_{RRM}$	<25	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 ($I_R = \text{mA}$; $T_j = \text{°C}$; inductive load switched off)	-	mJ



case: 6,3 x 21 [mm]

