DIOTEC ELEKTRONISCHE

## BY 2000...6000

## Silicon Rectifier

Nominal current 3A / 1,5A / 1 A

Repetitive peak reverse voltage

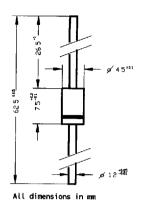
2000..6000 V

Plastic case ≈ DO201

Plastic case according UL94-V0

rectif. with resistive load,

Weight approx. 1g



1 A

 $< 30 \text{ K/W}^{1)}$ 

## Maximum ratings

Туре	Repetitive peak reverse voltage	Surge peak reverse voltage	Nom. Current $(R - Load)^{1}$ at $T_A = 50 ^{\circ}$ C	Repetitive peak forw.
	V <sub>RRM</sub> [V]	V <sub>RSM</sub> [V]	I <sub>FAV</sub> [A]	I <sub>FRM</sub> [A]
BY 2000	2000	2000	3	20
BY 4000	4000	4000	1.5	10
BY 6000	6000	6000	1	6
ominal cu	rrent at half wave	I	1 A	

IFAV

 $R_{thii}$ 

$T_A = 50$ °C			
Surge forward current half cycle sine wave starting at $T_j$ =25°C	I <sub>FSM</sub>	100	A
Junction temperature Operating temperature Storage temperature	$egin{array}{c} \mathbf{T}_{\mathtt{A}} \ \mathbf{T}_{\mathtt{S}} \end{array}$	150 -40+150 -40+150	°Č

## Characteristics

at T<sub>4</sub>=25°C

Forward voltage at nominal of BY2000 BY4000 BY6000	current V <sub>F</sub> V <sub>F</sub> V <sub>F</sub>	< 1.1 V < 2.1 V < 3.2 V
Leakage current at $V_{\mathtt{RRM}}$	$\mathbf{I}_{R}$	< 20 μA
Thermal resistance junction - ambient air	R	< 30 K/W

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