BAT46 Schottky Diodes

FEATURES

- For general purpose apllications.
- These diodes feature very low turnon voltage and fast switching. These devices are protected by a PN junction guard ring against excessive voltage, such as electrostatic discharges.
- This diode is also available in the SOD-123 case with type designation BAT46W and in the MiniMELF case with type designations LL46.

MECHANICAL DATA

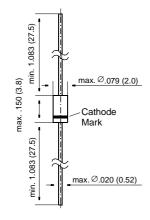
Case: DO-35 Glass Case **Weight:** approx. 0.13 g

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified

	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V _{RRM}	100	V
Forward Continuous Current at T _{amb} = 25 °C	IF	150 ¹⁾	mA
Repetitive Peak Forward Current at $t_p < 1 \text{ s}$, $\delta < 0.5$, $T_{amb} = 25 \text{ °C}$	I _{FRM}	350 ¹⁾	mA
Surge Forward Current at $t_p < 10$ ms, $T_{amb} = 25$ °C	I _{FSM}	750 ¹⁾	mA
Power Dissipation ¹⁾ at T _{amb} = 65 °C	P _{tot}	150 ¹⁾	mW
Junction Temperature	Тј	125	°C
Ambient Operating Temperature Range	T _{amb}	-65 to +125	°C
Storage Temperature Range	T _S	-65 to +150	°C
¹⁾ Valid provided that leads at a distance of 4 mm from cas	e are kept at ambie	nt temperature	





Dimensions in inches and (millimeters)

DO-35

BAT46

ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified

	Symbol	Min.	Тур.	Max.	Unit	
Reverse Breakdown Voltage tested with 100 μA Pulses	V _{(BR)R}	100	-	-	V	
Forward Voltage Pulse Test $t_p < 300 \ \mu s$, $\delta < 2\%$ at $I_F = 0.1 \ mA$ at $I_F = 10 \ mA$ at $I_F = 250 \ mA$	V _F V _F V _F		_ _ _	0.25 0.45 1	V V V	
Leakage Current Pulse Test $t_p < 300 \ \mu s, \ \delta < 2\%$ at $V_R = 1.5 \ V$ at $V_R = 1.5 \ V, \ T_j = 60 \ ^{\circ}C$ at $V_R = 10 \ V, \ T_j = 60 \ ^{\circ}C$ at $V_R = 50 \ V, \ T_j = 60 \ ^{\circ}C$ at $V_R = 75 \ V, \ T_j = 60 \ ^{\circ}C$	IR IR IR IR IR IR IR IR	- - - - - -	- - - - - - - -	0.5 5 0.8 7.5 2 15 5 20	μΑ μΑ μΑ μΑ μΑ μΑ μΑ μΑ	
Capacitance at $V_R = 0$ V, f = 1 MHz at $V_R = 1$ V, f = 1 MHz	C _{tot} C _{tot}		10 6		pF pF	
Thermal Resistance Junction to Ambient Air	R _{thJA}	_	-	0.31)	K/mW	
¹⁾ Valid provided that leads at a distance of 4 mm from the case are kept at ambient temperature (DO-35)						



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