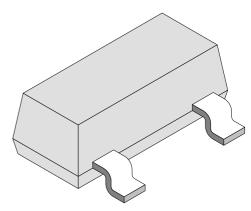


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Surface Mount Switching Diode

Features

- Fast switching speed
- Surface mount package
- Well suited for automated assembly process



94 8550

Absolute Maximum Ratings

T_j = 25°C

Parameter	Test Conditions	Туре	Symbol	Value	Unit
Repetitive peak reverse voltage =Working peak reverse voltage =DC Blocking voltage			V _{RRM} =V _{RWM} =V _R	70	V
Peak forward surge current	t=1µs		I _{FSM}	2	А
	t=1ms		I _{FSM}	1	А
	t=1s		I _{FSM}	0.5	А
Average forward current			I _{FAV}	250	mA
Power dissipation	on fiberglass substrate 30mmx10mmx1.6mm		P _{tot}	350	mW
Junction and storage temperature range			T _j =T _{stg}	-55+150	°C

Maximum Thermal Resistance

T_i = 25°C

Parameter	Test Conditions	Symbol	Value	Unit
Junction to ambient	on fiberglass substrate 30mmx10mmx1.6mm	R _{thJA}	357	K/W

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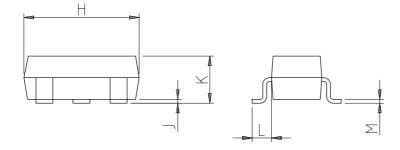
Electrical Characteristics

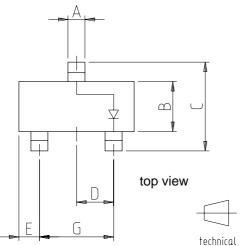
$T_j = 25^{\circ}C$

Parameter	Test Conditions	Туре	Symbol	Min	Тур	Max	Unit
Forward voltage	I _F =1mA		V _F			0.715	V
	I _F =10mA		V _F			0.855	V
	I _F =50mA		V _F			1.0	V
	I _F =150mA		V _F			1.25	V
Reverse current	V _R =70V		I _R			2.5	μA
	V _R =70V, T _i =150°C		I _R			100	μA
	V _R =25V, T _j =150°C		I _R			30	μA
Diode capacitance	$V_F = V_R = 0$, f = 1MHz		CD			1.5	рF
Reverse recovery time	$I_F=I_R=10mA$ to $I_R=1mA$, $R_L=100\Omega$, $V_R=6V$		t _{rr}			6	ns



Dimensions in mm





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technical drawings according to DIN specifications

14374

	SOT-23					
Dim	Min	Max				
А	0.37	0.50				
В	1.19	1.40				
C	2.10	2.50				
D	0.89	1.05				
E	0.45	0.61				
G	1.78	2.05				
Н	2.79	3.05				
J	0.013	0.15				
Κ	0.89	1.10				
	0.45	0.61				
М	0.076	0.130				
AL	All Dimensions in mm					

Case: SOT–23, plastic Terminals: Solderable per MIL–STD–202, Method 208 Pin connections: see diagram Approx. weight: 0.008 grams Marking: KJF

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Ozone Depleting Substances Policy Statement

It is the policy of Vishay Semiconductor GmbH to

1. Meet all present and future national and international statutory requirements.

2. Regularly and continuously improve the performance of our products, processes, distribution and operating systems

with respect to their impact on the health and safety of our employees and the public, as well as their impact on the environment.

It is particular concern to control or eliminate releases of those substances into the atmosphere which are known as ozone depleting substances (ODSs).

The Montreal Protocol (1987) and its London Amendments (1990) intend to severely restrict the use of ODSs and forbid their use within the next ten years. Various national and international initiatives are pressing for an earlier ban on these substances.

Vishay Semiconductor GmbH has been able to use its policy of continuous improvements to eliminate the use of ODSs listed in the following documents.

- 1. Annex A, B and list of transitional substances of the Montreal Protocol and the London Amendments respectively
- 2. Class I and II ozone depleting substances in the Clean Air Act Amendments of 1990 by the Environmental Protection Agency (EPA) in the USA
- 3. Council Decision 88/540/EEC and 91/690/EEC Annex A, B and C (transitional substances) respectively.

Vishay Semiconductor GmbH can certify that our semiconductors are not manufactured with ozone depleting substances and do not contain such substances.

We reserve the right to make changes to improve technical design and may do so without further notice. Parameters can vary in different applications. All operating parameters must be validated for each customer application by the customer. Should the buyer use Vishay-Telefunken products for any unintended or unauthorized application, the buyer shall indemnify Vishay-Telefunken against all claims, costs, damages, and expenses, arising out of, directly or indirectly, any claim of personal damage, injury or death associated with such unintended or unauthorized use.

> Vishay Semiconductor GmbH, P.O.B. 3535, D-74025 Heilbronn, Germany Telephone: 49 (0)7131 67 2831, Fax number: 49 (0)7131 67 2423