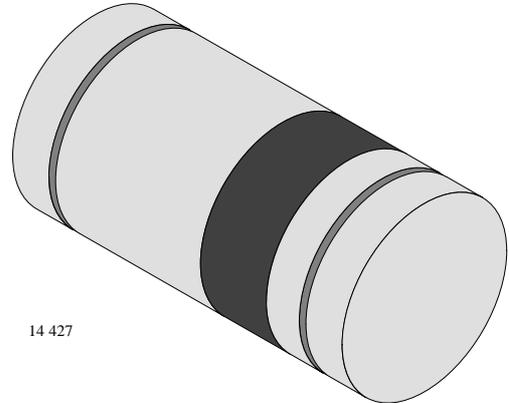




1.0A Surface Mount Fast Recovery Rectifiers

Features

- Glass passivated junction
- Low leakage
- Low forward voltage drop
- High current capability
- For surface mounted application
- Plastic material – UL Recognition flammability classification 94V-0



14 427

Absolute Maximum Ratings

 $T_j = 25^\circ\text{C}$

Parameter	Test Conditions	Type	Symbol	Value	Unit
Repetitive peak reverse voltage =Working peak reverse voltage =DC Blocking voltage		DL4933	V_{RRM} = V_{RWM} = V_R	50	V
		DL4934		100	V
		DL4935		200	V
		DL4936		400	V
		DL4937		600	V
Peak forward surge current			I_{FSM}	30	A
Average forward current	$T_T=75^\circ\text{C}$		I_{FAV}	1	A
Junction and storage temperature range			$T_j=T_{stg}$	-65...+150	$^\circ\text{C}$

Electrical Characteristics

 $T_j = 25^\circ\text{C}$

Parameter	Test Conditions	Type	Symbol	Min	Typ	Max	Unit
Forward voltage	$I_{FAV}=1\text{A}$		V_F			1.2	V
Reverse current			I_R			5	μA
	$T_T=55^\circ\text{C}$		I_R			100	μA
Reverse recovery time	$I_F=1\text{A}$, $V_R=30\text{V}$, $di/dt=50\text{A}/\mu\text{s}$		t_{rr}			200	ns
Diode capacitance	$V_R=4\text{V}$, $f=1\text{MHz}$		C_D		15		pF



Characteristics ($T_j = 25^\circ\text{C}$ unless otherwise specified)

Figure 1. Max. Average Forward Current vs.
Ambient Temperature

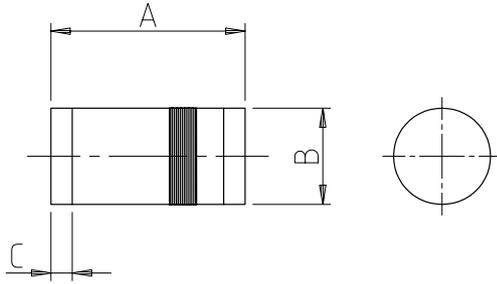
Figure 3. Max. Peak Forward Surge Current vs.
Number of Cycles

Figure 2. Typ. Forward Current vs.
Forward Voltage

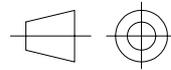
Figure 4. Typ. Reverse Current vs.
Percent of Rated Peak Reverse Voltage



Dimensions in mm



MELF		
Dim	Min	Max
A	4.80	5.20
B	2.40	2.60
C	0.55 Nominal	
All Dimensions in mm		



technical drawings
according to DIN
specifications

14441

Case: MELF, plastic
Polarity: cathode band
Approx. weight: 0.25 grams
Mounting position: any
Marking: cathode band only



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.

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