

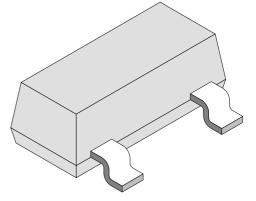
Silicon Planar Dual Diode

Features

• Common cathode

Applications

Fast switches in thick and thin film circuits



94 8550

Absolute Maximum Ratings

 $T_j = 25^{\circ}C$

Parameter	Test Conditions	Type	Symbol	Value	Unit
Reverse voltage			V_{R}	70	V
Peak forward surge current	$t_p=1\mu s$		I _{FSM}	4.5	A
Repetitive peak forward current			I _{FRM}	450	mA
Forward current	D1+D2		I_{F}	250	mA
Power dissipation			P _{tot}	300	mW
Junction temperature			Tj	150	°C
Storage temperature range			T _{stg}	-55+150	°C

Maximum Thermal Resistance

 $T_j = 25^{\circ}C$

Parameter	Test Conditions	Symbol	Value	Unit
Junction ambient	on ceramic substrate 8mmx10mmx0.7mm	R_{thJA}	430	K/W

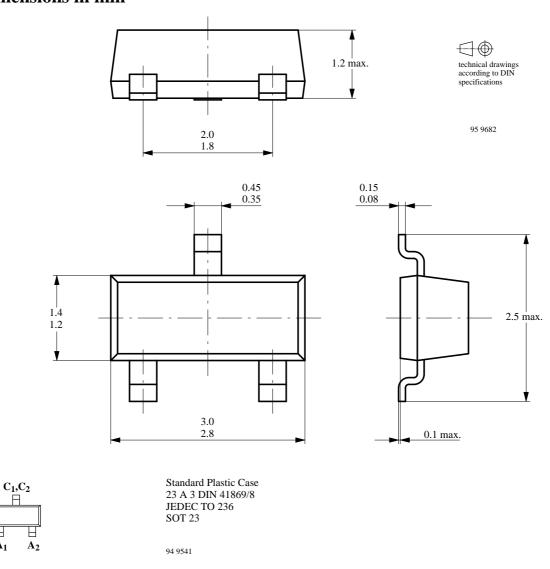


Characteristics

 $T_j = 25^{\circ}C$

Parameter	Test Conditions	Туре	Symbol	Min	Тур	Max	Unit
Forward voltage	I _F =1mA		V_{F}			715	mV
	I _F =10mA		V_{F}			855	mV
	I _F =50mA		V_{F}			1	V
	I _F =150mA		V_{F}			1.25	V
Reverse current	$V_R=70V$		I_R			2.5	μΑ
	V _R =70V, T _j =150°C		I_R			50	μΑ
	$V_R = 25V, T_j = 150^{\circ}C$		I_R			30	μΑ
Reverse recovery time	$I_F=10$ mA, $I_R=10$ mA, $I_R=1$ mA		t _{rr}			6	ns
Diode capacitance	V _R =0, f=1MHz		C_{D}			1.5	pF

Dimensions in mm



 $\mathbf{A_1}$



Ozone Depleting Substances Policy Statement

It is the policy of **TEMIC TELEFUNKEN microelectronic GmbH** to

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

TEMIC TELEFUNKEN microelectronic GmbH semiconductor division 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.

TEMIC 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 TEMIC products for any unintended or unauthorized application, the buyer shall indemnify TEMIC 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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