

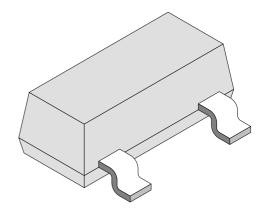
Silicon Epitaxial Planar Dual Capacitance Diode

Features

- Common cathode
- High capacitance ratio

Applications

Tuning of separate resonant circuits, push–pull circuits in FM range, for car radios



94 8550

Absolute Maximum Ratings

 $T_j = 25^{\circ}C$

Parameter	Test Conditions	Туре	Symbol	Value	Unit
Repetitive peak reverse voltage			V _{RRM}	20	V
Reverse voltage			V_{R}	18	V
Forward current			I _F	50	mA
Junction temperature			Tj	125	°C
Storage temperature range			T _{stg}	-55+150	°C

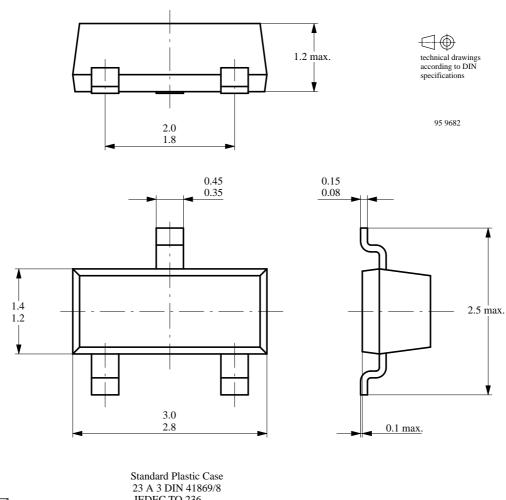
Characteristics

 $T_j = 25^{\circ}C$

Parameter	Test Conditions	Type	Symbol	Min	Тур	Max	Unit
Reverse current	V _R =16V		I_R			20	nA
	V _R =16V, T _j =60°C		I_R			200	nA
Diode capacitance 1)	V _R =2V	Group 2	C_D	42.5		43.8	pF
		Group 3	C_{D}	43.7		45	pF
	$V_R=8V$	Group 2	C_D	17.5		19.2	pF
		Group 3	C_D	18.0		19.8	pF
Capacitance ratio	$V_R=2V,8V, f=1MHz$		C _{D2} / C _{D8}	2.25		2.45	
Series resistance	V _R =2V, f=100MHz		$r_{\rm S}$			0.5	Ω
4	e range of V _R =28V for 4 d	iodes taped in		max de	viation is ?		



Dimensions in mm



Standard Plastic Case 23 A 3 DIN 41869/8 JEDEC TO 236 SOT 23

94 9540



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.
- 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.

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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