

Voltage regulator diodes

BZX79 series

FEATURES

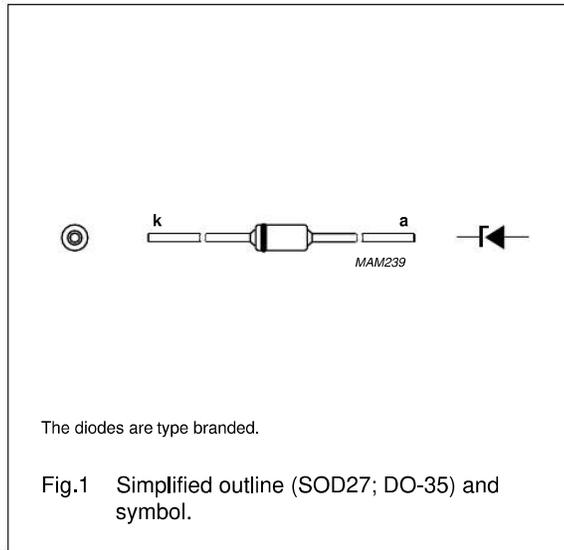
- Total power dissipation: max. 500 mW
- Two tolerance series: $\pm 2\%$, and approx. $\pm 5\%$
- Working voltage range: nom. 2.4 to 75 V (E24 range)
- Non-repetitive peak reverse power dissipation: max. 40 W.

APPLICATIONS

- Low voltage stabilizers or voltage references.

DESCRIPTION

Low-power voltage regulator diodes in hermetically sealed leaded glass SOD27 (DO-35) packages. The diodes are available in the normalized E24 $\pm 2\%$ (BZX79-B) and approx. $\pm 5\%$ (BZX79-C) tolerance range. The series consists of 37 types with nominal working voltages from 2.4 to 75 V.



LIMITING VALUES

In accordance with the Absolute Maximum Rating System (IEC 60134).

SYMBOL	PARAMETER	CONDITIONS	MIN.	MAX.	UNIT
I_F	continuous forward current		–	250	mA
I_{ZSM}	non-repetitive peak reverse current	$t_p = 100 \mu s$; square wave; $T_j = 25 \text{ }^\circ C$ prior to surge	see Tables 1 and 2		A
P_{tot}	total power dissipation	$T_{amb} = 50 \text{ }^\circ C$; note 1	–	400	mW
		$T_{tie} = 50 \text{ }^\circ C$; note 2		500	mW
				40	W
				+200	$^\circ C$
				+200	$^\circ C$

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1. Device mounted on a printed circuit-board without metallization pad; lead length max.
2. Tie-point temperature $\leq 50 \text{ }^\circ C$; max. lead length 8 mm.

ELECTRICAL CHARACTERISTICS

Total BZX79-B and BZX79-C series

$T_j = 25 \text{ }^\circ C$ unless otherwise specified.

SYMBOL	PARAMETER	CONDITIONS	MAX.	UNIT
V_F	forward voltage	$I_F = 10 \text{ mA}$; see Fig.4	0.9	V