

Voltage Regulator Diode

Zener 82 V / 10 W

Technical Data

Typical applications : Designed to provide a near constant voltage when operated in the reverse breakdown mode but when operated with a forward bias it behaves similarly to any forward biased rectifier junction.

Features :

- P_{tot} 10 W [Tcase = 75 °C]
- Hermetic metal glass seal .
- Anode to case
- T_{vj} max = 175 °C

Symbol	Conditions	Limit
V_{ZT}	Zener Voltage @ Zener Test Current I_{ZT} ; Tolerance = $\pm 5\%$	82 Volts nominal
I_{ZT}	Zener Test Current	30 mA
Z_{ZT}	Zener Impedence @ Zener Test Current I_{ZT}	25 max
Z_{ZK}	Zener Impedence in the breakdown knee region @ Zener Test Current in the breakdown knee region I_{ZK}	700 max
I_{ZK}	Zener Test Current in the breakdown knee region	1.0 mA
VZ	Temperature Coefficient of working voltage	$9.0 \times 10^{-4} / ^\circ\text{C}$ typ
I_R	Continuous Reverse Current @ Continuous Reverse Voltage V_R ; $T_{amb} = 25^\circ\text{C}$	10 μA max
V_R	Continuous Reverse Voltage	62 Volts
I_{ZM}	Peak Regulation Current	120 mA
Case Outline		DO4