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CDLL5918B (#12867)

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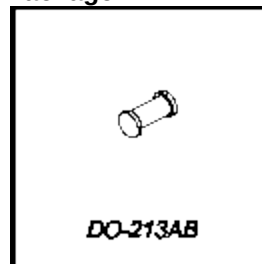
Zener Voltage Regulator Diode

Division [Ireland](#) Datasheet [SA3-35.PDF](#)
Mil-Spec (none) Spice Data (none)
Shipping TR13\5000cntTR13 Qual Data [glassqual.pdf](#)

Description

This surface mountable 1.5 W Zener diode series in the JEDEC DO-213AB package is similar in electrical features to the JEDEC registered 1N5913B thru 1N5956B axial-leaded package for 3.3 to 200 V. It is an ideal selection for applications of high density and low parasitic requirements. Due to its glass hermetic qualities and metallurgically enhanced internal contacts, it may also be used for high reliability applications when required by a source control drawing (SCD) or screening in accordance with MIL-PRF-19500 as described in Features below. Zener voltage tolerance options are identified by part number suffix including tight-tolerance. A variety of other Zener product offerings and packages are available by Microsemi to meet higher or lower power and test current applications.

Package



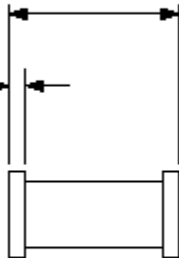
Maximum Electrical Rating	Symbol	Max	Unit
Power Dissipation	Power	1.5	W
Tolerance	Tol	5	%

Electrical Rating	Symbol	Min	Nom	Max	Unit
Zener Voltage					
(I _{ZT} =73.5 mA, T _A =25 °C)	V _Z			5.1	V
Dynamic Impedance					
(I _{ZT} =73.5 mA, T _A =25 °C)	Z _{ZT}			4	Ohms
Reverse Leakage Current					
(V _R =2 V)	I _R			5	µA
Maximum Regulator Current	I _{ZM}			294	mA
Zener Knee Impedance					
(I _{zk} =1 mA)	Z _{ZK}			350	Ohms

DO-213AB

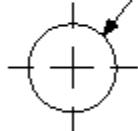


.016 [0.41] MIN.
.022 [0.55] MAX.



.189 [4.80] MIN.
.205 [5.20] MAX.

Ø .094 [2.39] MIN.
Ø .105 [2.66] MAX.



.110 [2.8] TYP.

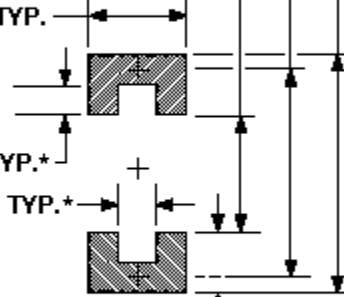
.040 [1.0] TYP.*

.012 [0.3] TYP.*

276 [7.0] REF.

205 [5.2] REF.

.134 [3.4] TYP.



.070 [1.8] TYP.

PAD LAYOUT

NOTE: DIMENSIONS IN INCHES [MM]

***Optional notch**

THIS DRAWING IS FOR REFERENCE ONLY. PLEASE REFER TO THE MICROSEMI PUBLISHED DATA SHEET.