

POWER DISCRETES & MODULES

- ▶ Voltage & Current Regulation Diodes

- Current Regulator Diodes

▶ Zener Diodes

- Low Voltage Avalanche Zener

- Temperature Compensated Zener (TCZ)

- **Zener Voltage Regulator Diodes**

▶ Small Signal Diodes and Diode Arrays

▶ IGBT

▶ Power MOSFET

▶ Power Modules

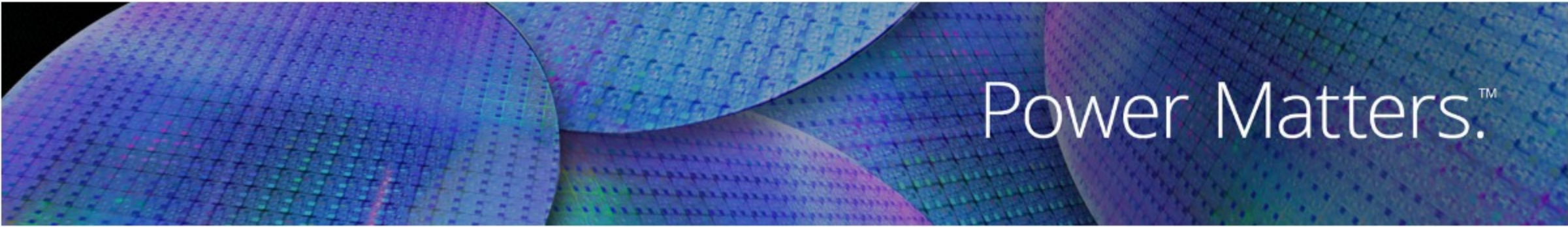
▶ JFET

▶ BJT (BiPolar Junction Transistor)

▶ Legacy Power Discretes & Modules

▶ Diode and Rectifier Devices

▶ Silicon Carbide (SiC) Semiconductor



[Home](#) / [Power Discretes & Modules](#) / [Voltage & Current Regulation Diodes](#) / [Zener Diodes](#) / [Zener Voltage Regulator Diodes](#) / **JANTX1N963B-1** (#52251)

JANTX1N963B-1 (#52251)

Product Status

In Production

- Overview

Resources

Diagrams

Ordering

Support

The popular 1N957B-1 through 1N992B-1 series of 0.5 watt Zener voltage regulators provides a selection from 6.8 to 200 volts in a standard 5%, 2% and 1% tolerance versions. These axial-leaded glass DO-35 Zeners feature an internal metallurgical bond and are available in military qualified and commercial RoHS compliant versions. Military qualified versions are available on the 1N962B-1 through 1N992B-1 range of part numbers.

Package Carrier: ESD Bag

Electrical Rating	Symbol	Min	Typ	Max	Unit
Dynamic Impedance	Z_x			11.5	Ω
Reference Current, RMS Component	I_{zt}			10.5	mA
Reference Impedance (Small-Signal, at I_{ZK})	Z_{zk}			700	Ω
Regulator Current, DC Maximum Rated	I_{ZM}			32	mA
Regulator voltage, reference voltage (dc)	V_Z			12	V
Reverse Breakdown Voltage	V_{BR}			9.1	V
Reverse Current (μ A)	I_R			1	μ A
Surge Peak Transient Current (ma)	I_S			540	mA

Maximum Electrical Rating	Symbol	Min	Typ	Max	Unit
Forward Voltage (mV)	V_F			1100	mV
Junction Temperature ($^{\circ}$ C)	T_J	-65		175	$^{\circ}$ C
Power Dissipation	P_D			0.4	W
Thermal Resistance, Junction to Ambient ($^{\circ}$ C/W)	$R_{\theta JA}$			300	$^{\circ}$ C/W
Thermal Resistance, Junction to Lead ($^{\circ}$ C/W)	$R_{\theta JL}$			250	$^{\circ}$ C/W

Alphanumeric Parameter	Value
Quality Level	JANTX

This part can be found in the following product categories:

- Power Discretes & Modules ▶ Voltage & Current Regulation Diodes ▶ Zener Diodes ▶ Zener Voltage Regulator Diodes

• Power Discretes & Modules ▶ Voltage & Current Regulation Diodes ▶ Zener Diodes