

ZR01C

Inverted Series Suppressor Network

FEATURES:

- Designed for use as relay suppression circuit applications.
- Plastic ZR01C package.
- Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number.
- Available Non-RoHS (standard) or RoHS compliant (add PBF suffix).

MAXIMUM RATINGS

Ratings	Symbol	Value	Unit
Zener diode power dissipation	P_D	1.5	Watts
Rectifier maximum average forward current @ $T_A = 75^\circ\text{C}$	I_{AV}	1.0	Amps
Rectifier maximum peak reverse voltage	V_{RWM}	600	Volts
Storage temperature range	T_{stg}	70 to +175	$^\circ\text{C}$
Operating temperature range	T_J	70 to +150	$^\circ\text{C}$
Solder temperature	T_{SP}	260 maximum 10sec	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS @ 25°C unless otherwise noted

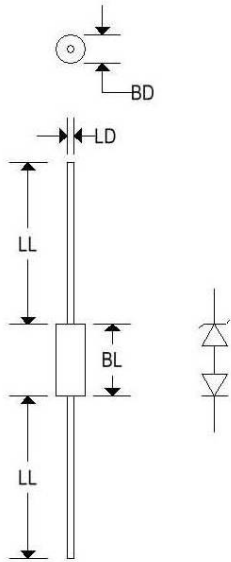
Parameters	Symbol	Min	Max	Unit
Zener voltage $I_{ZT} = 1.5\text{mA}$, $T_P = 10\text{ms}$	V_Z	33	39	Volts
Zener voltage $I_{ZT} = 1.5\text{mA}$, $T_P = 10\text{ms}$, $T_A = 125^\circ\text{C}$	V_Z	36	43	Volts
Zener voltage $I_{ZT} = 1.5\text{mA}$, $T_P = 10\text{ms}$, $T_A = -55^\circ\text{C}$	V_Z	30	38	Volts
Maximum zener reverse current $V_R = 24\text{V}$	I_R	0.1		μA
Minimum diode breakdown voltage $I_R = 20\mu\text{A}$	V_{BR}	600		Volts
Maximum diode reverse current $V_R = 480\text{V}$	I_R	1		μA

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MECHANICAL CHARACTERISTICS

Case	ZR01C plastic body
Marking	Body painted, alpha-numeric
Polarity	Cathode band



	ZR01C			
	Inches		Millimeters	
	Min	Max	Min	Max
BD	-	0.100	-	2.540
BL	-	0.135	-	3.429
LD	0.017	0.023	0.432	0.584
LL	1.000	-	25.400	-