DIGITRON™ Semiconductors

High-reliability discrete products
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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°C	I_{AV}	1.0	Amps
Rectifier maximum peak reverse voltage	V_{RWM}	600	Volts
Storage temperature range	T_{stg}	70 to +175	°C
Operating temperature range	T_J	70 to +150	°C
Solder temperature	T_{SP}	260 maximum 10sec	°C

ELECTRICAL CHARACTERISTICS @ 25°C unless otherwise noted

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

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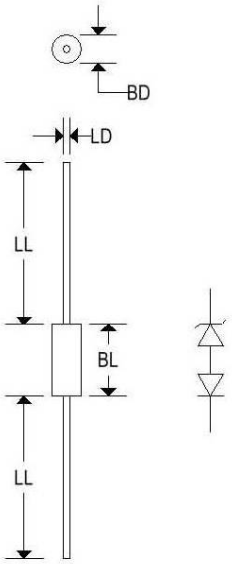
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MECHANICAL CHARACTERISTICS

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	-