

CZRZC52C3V3-HF Thru. CZRZC52C8V2-HF

Voltage: 3.3 to 8.2 Volts

Power: 100mW

RoHS Device

Halogen Free

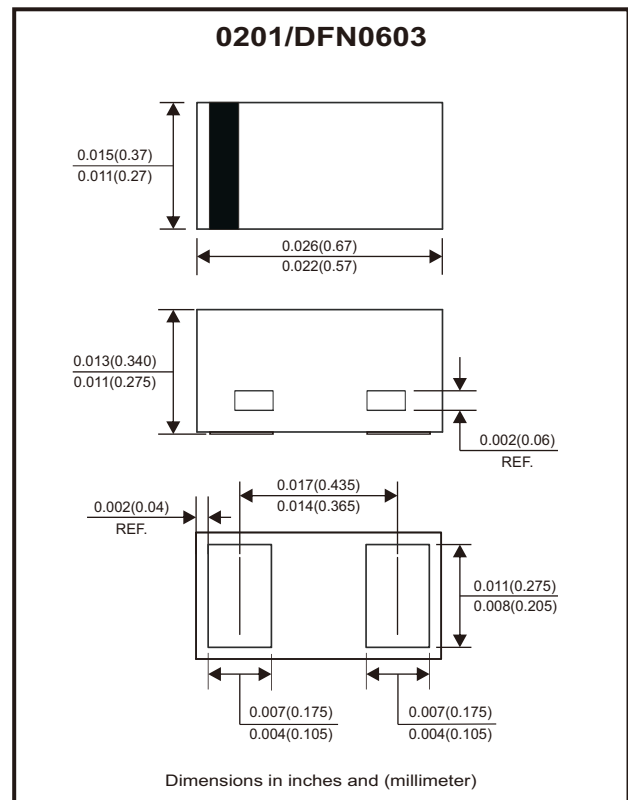


Features

- 100mW power dissipation.
- Voltages : 3.3V, 4.7V, 5.1V, 5.6V, 6.8V, 8.2V
- High reliability.
- Designed for mounting on small surface.
- Extremely thin/leadless package.

Mechanical data

- Case: 0201/DFN0603 package, molded plastic.
- Terminals: Gold plated, solderable per MIL-STD-750, method 2026.
- Polarity: Color band denotes cathode end.
- Mounting position: Any



Circuit Diagram



Maximum Rating (at T_A=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Maximum forward voltage drop at I _F = 10 mA	V _F	0.9	V
Maximum power dissipation at 25 °C	P _D	100	mW
Junction temperature	T _J	150	°C
Storage temperature range	T _{STG}	-55 to +150	°C

Electrical Characteristics (TA=25°C unless otherwise specified)

Part Number	Marking Code	Zener Voltage				Operating Resistance		Rising Operating Resistance		Leakage Current	
		Vz (Volts)			@IzT	ZzT (Ohm)		Zzk (Ohm)		Ir@VR	
		Min	Nom	Max	mA	Max	IzT (mA)	Max	Izk (mA)	μA	Volts
CZRZC52C3V3-HF	Z5	3.16	3.30	3.53	5	100	5	1000	1.0	20	1.0
CZRZC52C4V7-HF	Z9	4.42	4.70	4.90	5	100	5	800	0.5	2.0	1.0
CZRZC52C5V1-HF	ZA	4.84	5.10	5.37	5	80	5	500	0.5	2.0	1.5
CZRZC52C5V6-HF	ZB	5.31	5.60	5.92	5	60	5	200	0.5	1.0	2.5
CZRZC52C6V8-HF	ZE	6.47	6.80	7.14	5	40	5	60	0.5	0.5	3.5
CZRZC52C8V2-HF	ZG	7.76	8.20	8.64	5	30	5	50	0.5	0.5	5.0

Rating and Characteristic Curves (CZRZC52C3V3-HF Thru. CZRZC52C8V2-HF)

Fig.1 - Forward Characteristics

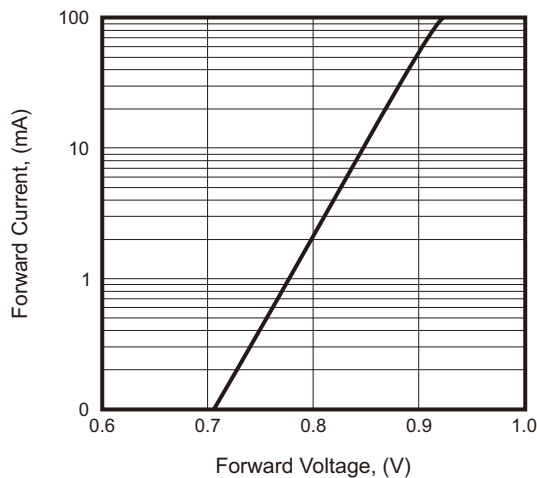


Fig.2 - Zener Breakdown Characteristics

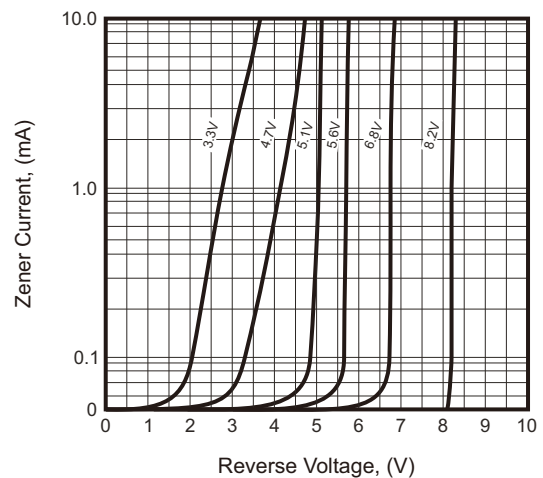
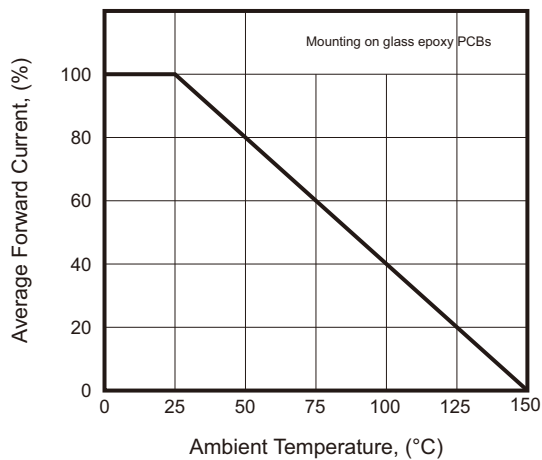
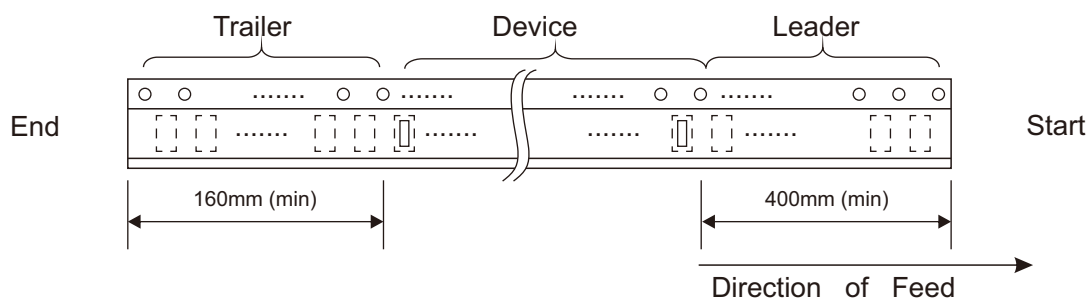
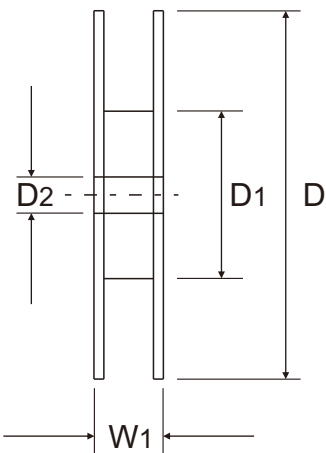
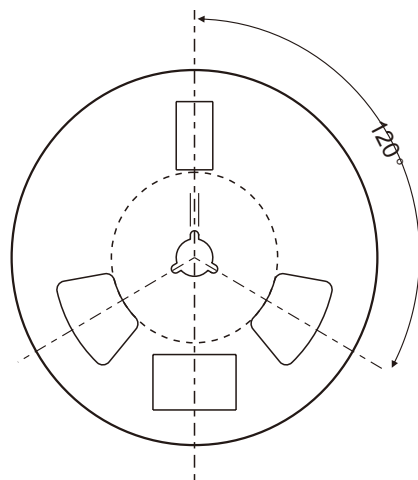
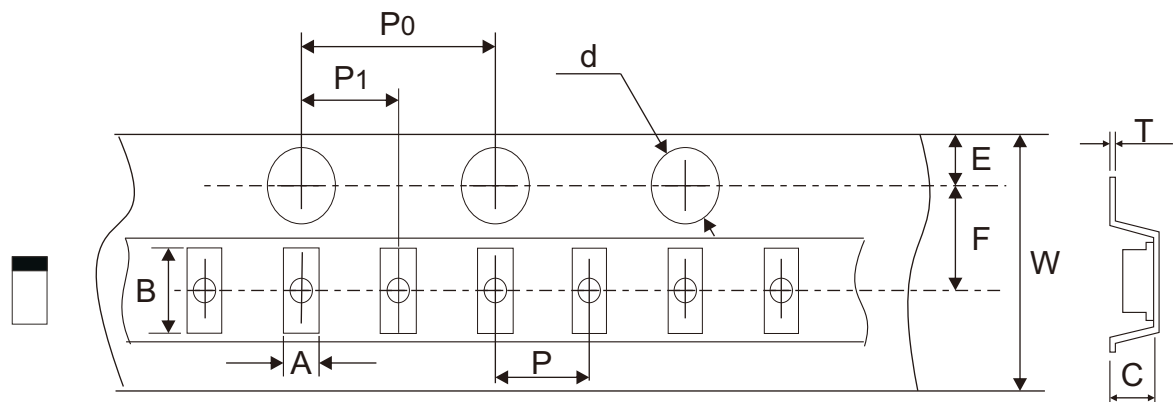


Fig.3 - Current Derating Curve



Reel Taping Specification



0201 (DFN0603)	SYMBOL	A	B	C	d	D	D1	D2
	(mm)	0.37 ± 0.03	0.67 ± 0.03	0.35 ± 0.03	1.50 + 0.10 - 0.00	178.00 ± 1.00	60.00 ± 0.50	13.50 ± 0.20
	(inch)	0.015 ± 0.001	0.026 ± 0.001	0.014 ± 0.001	0.059 + 0.004 - 0.000	7.008 ± 0.039	2.362 ± 0.020	0.531 ± 0.008

0201 (DFN0603)	SYMBOL	E	F	P	P0	P1	T	W	W1
	(mm)	1.75 ± 0.10	3.50 ± 0.05	2.00 ± 0.05	4.00 ± 0.10	2.00 ± 0.05	0.20 ± 0.02	8.00 + 0.30 - 0.10	12.00 + 0.50 - 0.00
	(inch)	0.069 ± 0.004	0.138 ± 0.002	0.079 ± 0.002	0.157 ± 0.004	0.079 ± 0.002	0.008 ± 0.001	0.315 + 0.012 - 0.004	0.472 + 0.020 - 0.000

Marking Code

Part Number	Marking Code
CZRZC52C3V3-HF Thru. CZRZC52C8V2-HF Series	XX

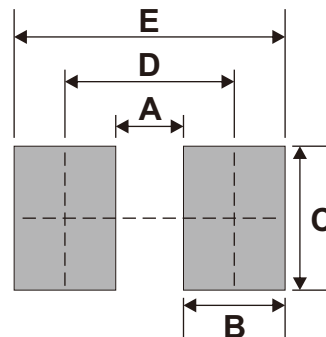


XX = Product type marking code

1. XX: Marking code (see Page.2)
2. ■ : Cathod Band

Suggested PAD Layout

SIZE	0201(DFN0603)	
	(mm)	(inch)
A	0.16	0.006
B	0.24	0.009
C	0.34	0.013
D	0.40	0.016
E	0.64	0.025



Standard Packaging

Case Type	REEL PACK	
	REEL (pcs)	Reel Size (inch)
0201 (DFN0603)	10,000	7