

ACZRZ3V3B-HF Thru. ACZRZ6V8B-HF

Voltage: 3.3 to 6.8 Volts

Power: 100mW

RoHS Device

Halogen Free



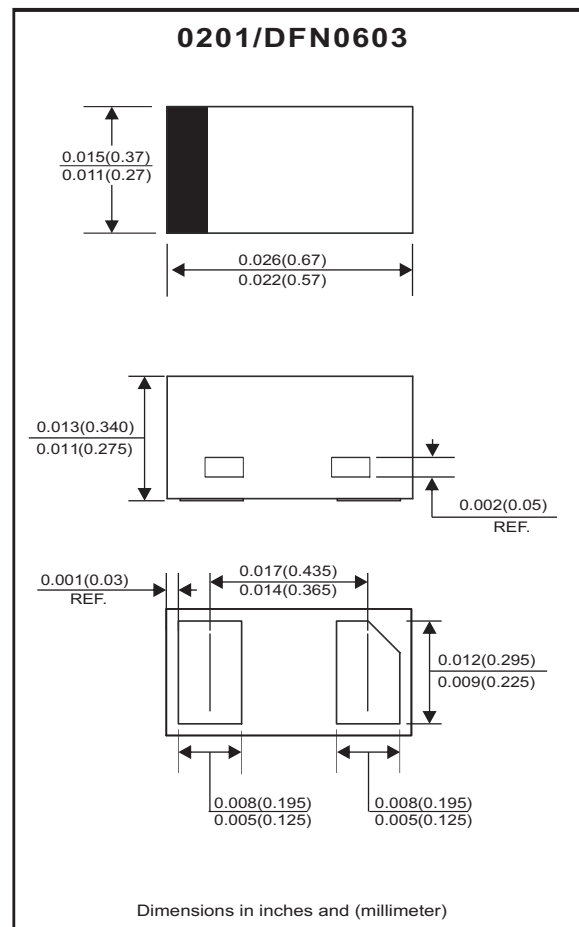
Features

- 100mW Power Dissipation.
- Voltages : 3.3V, 4.7V, 5.1V, 5.6V, 6.8V
- High reliability.
- Designed for mounting on small surface.
- Extremely thin/leadless package.
- Comply with AEC-Q101

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 range	T _J	150	°C
Operating temperature range	T _{opr}	-55 to +125	°C
Storage temperature range	T _{stg}	-55 to +150	°C

Electrical Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise specified)

Part Number	Zener Voltage				Operating resistance		Rising Operating Resistance		Leakage Current	
	$V_Z(\text{Volts})$			$@I_{ZT}$	$Z_{ZT}(\text{Ohm})$		$Z_{ZK}(\text{Ohm})$		$I_R@V_R$	
	Min	Nom	Max	mA	Max	$I_{ZT}(\text{mA})$	Max	$I_{ZK}(\text{mA})$	μA	Volts
ACZRZ3V3B-HF	3.16	3.30	3.53	5	100	5	1000	1.0	20	1.0
ACZRZ4V7B-HF	4.42	4.70	4.90	5	100	5	800	0.5	2.0	1.0
ACZRZ5V1B-HF	4.84	5.10	5.37	5	80	5	500	0.5	2.0	1.5
ACZRZ5V6B-HF	5.31	5.60	5.92	5	60	5	200	0.5	1.0	2.5
ACZRZ6V8B-HF	6.47	6.80	7.14	5	40	5	60	0.5	0.5	3.5

RATING AND CHARACTERISTIC CURVES

Fig.1 - Forward Characteristics

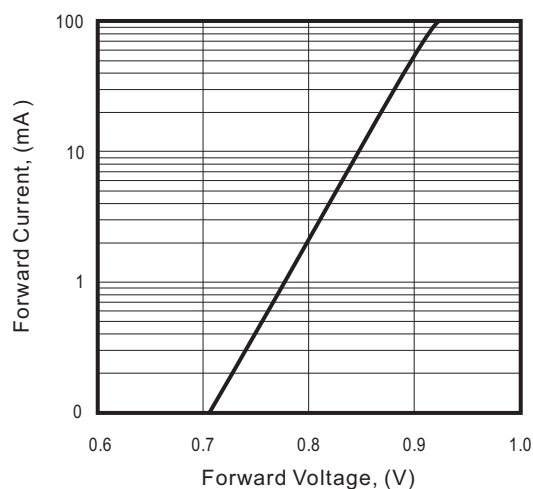


Fig.2 - Zener Breakdown Characteristics

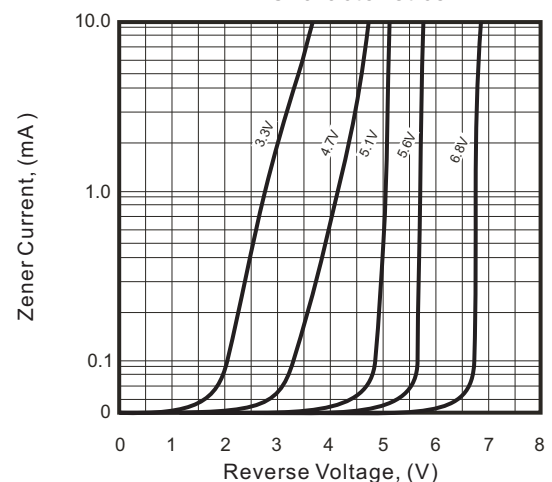
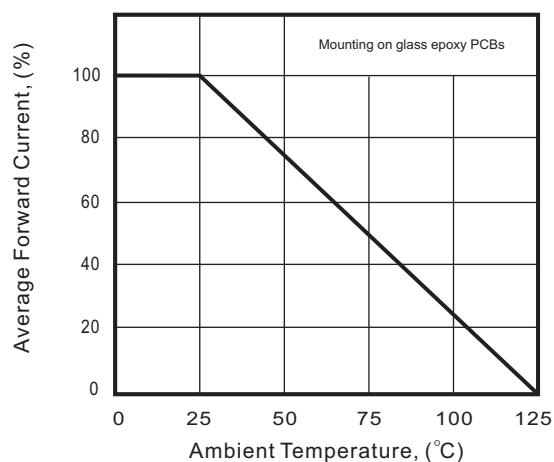
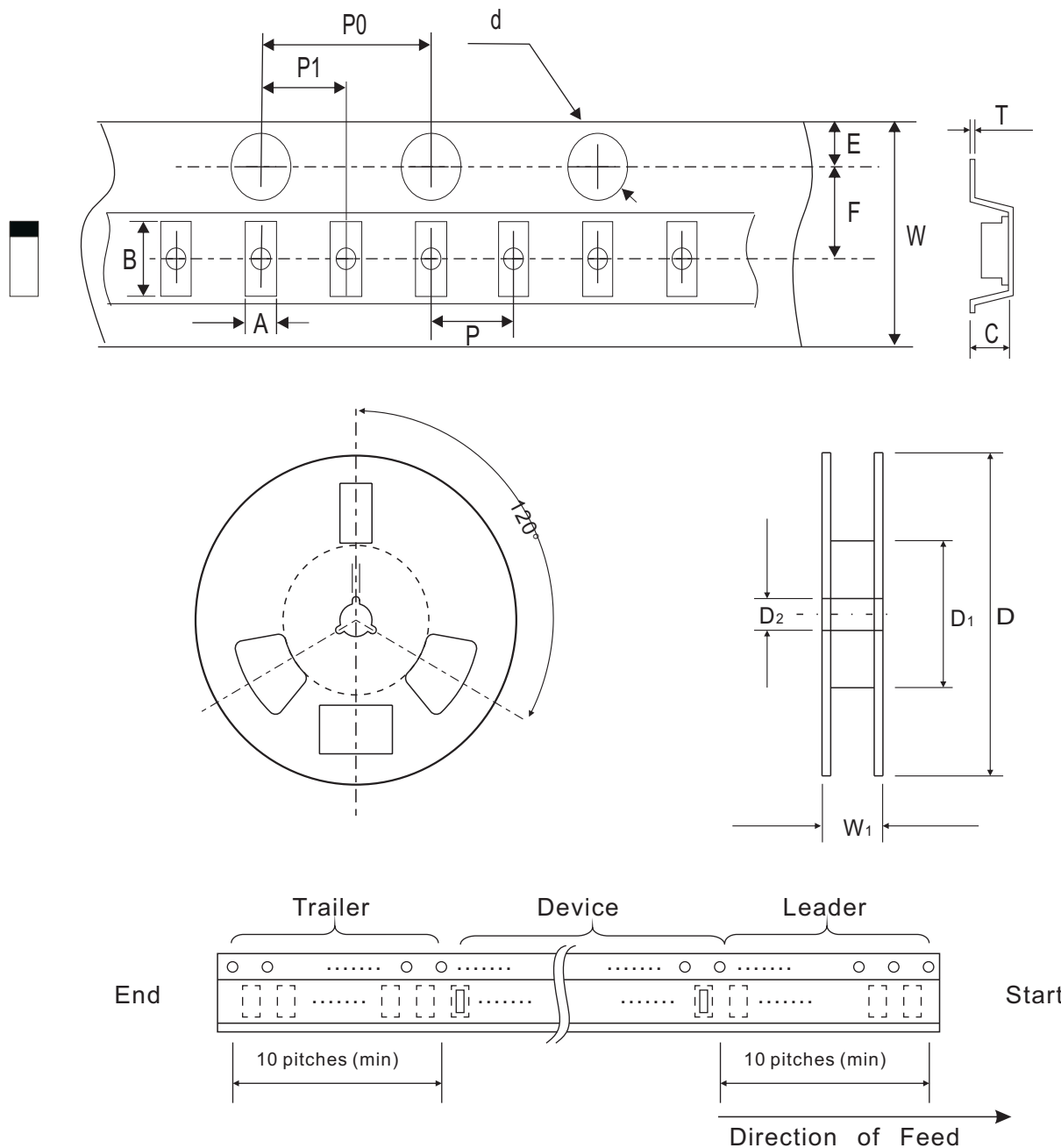


Fig.3 - Current Derating Curve



Reel Taping Specification



0201 (DFN0603)	SYMBOL	A	B	C	d	D	D ₁	D ₂
	(mm)	0.39 +0.03/-0.02	0.72 ± 0.03	0.36 ± 0.03	1.50 + 0.10	178 ± 1.00	54.4 ± 0.40	13.0 ± 0.20
	(inch)	0.015 +0.001/0.001	0.028 ± 0.001	0.014 ± 0.001	0.059 + 0.004	7.008 ± 0.039	2.142 ± 0.016	0.512 ± 0.008

0201 (DFN0603)	SYMBOL	E	F	P	P ₀	P ₁	T	W	W ₁
	(mm)	1.75 ± 0.10	3.50 ± 0.05	2.00 ± 0.05	4.00 ± 0.05	2.00 ± 0.05	0.23 ± 0.05	8.00 ± 0.10	12.30 ± 0.10
	(inch)	0.069 ± 0.004	0.138 ± 0.002	0.079 ± 0.004	0.157 ± 0.004	0.079 ± 0.004	0.009 ± 0.002	0.315 ± 0.008	0.484 ± 0.004

SMD Zener Diode

Marking Code

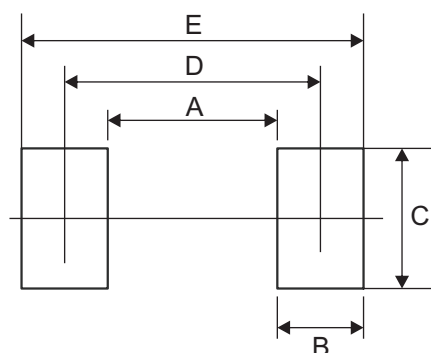
Part Number	Marking Code
ACZRZ3V3B-HF	E
ACZRZ4V7B-HF	I
ACZRZ5V1B-HF	J
ACZRZ5V6B-HF	K
ACZRZ6V8B-HF	L



X = Product type marking code

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	Qty Per Reel	Reel Size
	(Pcs)	(inch)
0201/DFN0603	10,000	7