

### ●Application

Voltage regulation

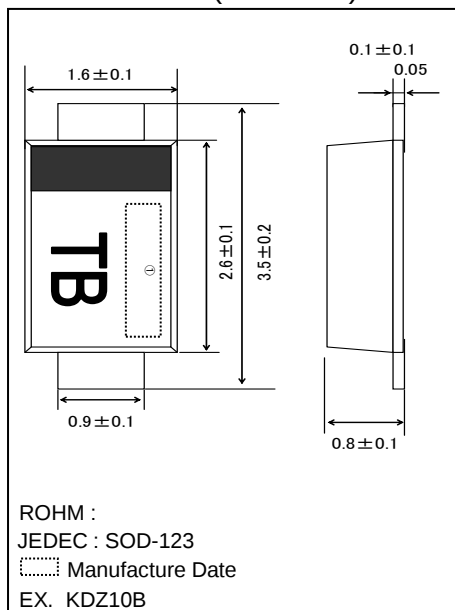
### ●Features

- 1) Small power mold type. (PMDU)
- 2) High ESD tolerance

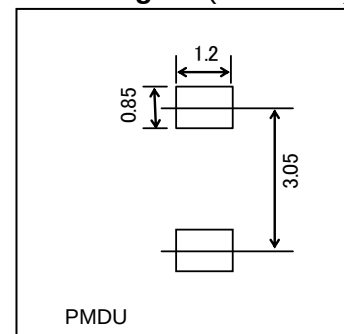
### ●Construction

Silicon epitaxial planar

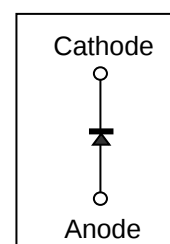
### ●Dimensions (Unit : mm)



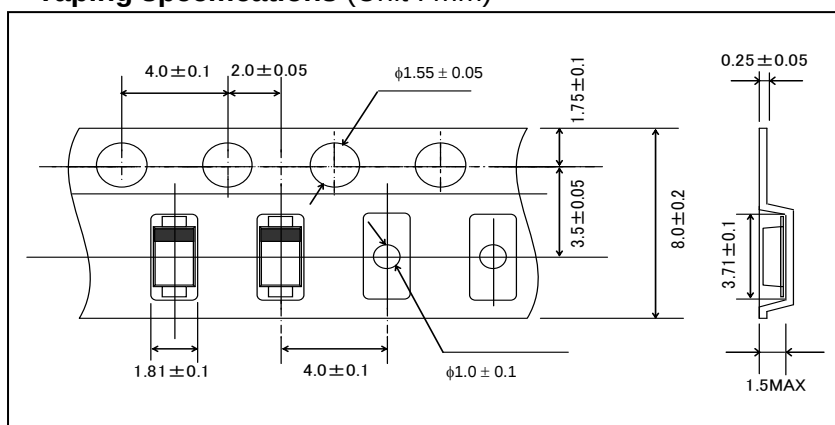
### ●Land size figure (Unit : mm)



### ●Structure



### ●Taping specifications (Unit : mm)



### ●Absolute maximum ratings (Ta = 25°C)

| Parameter            | Symbol | Limits      | Unit |
|----------------------|--------|-------------|------|
| Power dissipation    | P      | 1000        | mW   |
| Junction temperature | Tj     | 150         | °C   |
| Storage temperature  | Tstg   | -55 to +150 | °C   |

●Electrical characteristics (Ta= 25°C)

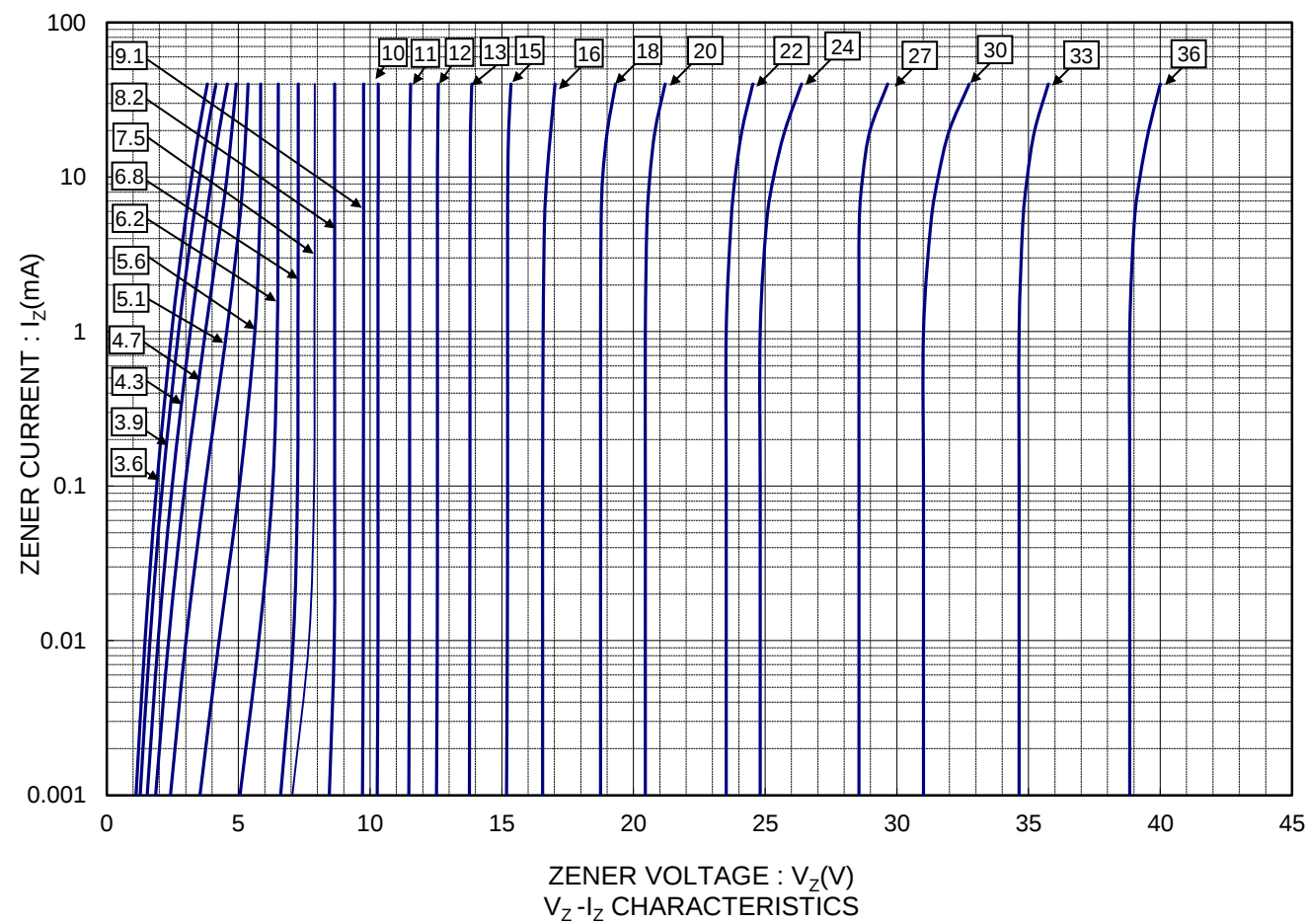
| TYP.     | Symbol                   |        |        |           |                                   |          |
|----------|--------------------------|--------|--------|-----------|-----------------------------------|----------|
|          | Zener voltage : $V_Z(V)$ |        |        |           | Reverse current<br>: $I_R(\mu A)$ |          |
|          | MIN.                     | TYP.   | MAX.   | $I_Z(mA)$ | MAX.                              | $V_R(V)$ |
| KDZ 3.6B | 3.600                    | 3.813  | 4.000  | 40.0      | 60.0                              | 1.0      |
| KDZ 3.9B | 3.900                    | 4.136  | 4.400  | 40.0      | 40.0                              | 1.0      |
| KDZ 4.3B | 4.300                    | 4.572  | 4.800  | 40.0      | 20.0                              | 1.0      |
| KDZ 4.7B | 4.700                    | 4.924  | 5.200  | 40.0      | 20.0                              | 1.0      |
| KDZ 5.1B | 5.100                    | 5.368  | 5.700  | 40.0      | 20.0                              | 1.0      |
| KDZ 5.6B | 5.600                    | 5.856  | 6.300  | 40.0      | 20.0                              | 1.5      |
| KDZ 6.2B | 6.200                    | 6.509  | 7.000  | 40.0      | 20.0                              | 3.0      |
| KDZ 6.8B | 6.800                    | 7.280  | 7.700  | 40.0      | 20.0                              | 3.5      |
| KDZ 7.5B | 7.500                    | 7.889  | 8.400  | 40.0      | 20.0                              | 4.0      |
| KDZ 8.2B | 8.200                    | 8.655  | 9.300  | 40.0      | 20.0                              | 5.0      |
| KDZ 9.1B | 9.100                    | 9.747  | 10.200 | 40.0      | 20.0                              | 6.0      |
| KDZ 10B  | 10.000                   | 10.310 | 11.200 | 40.0      | 10.0                              | 7.0      |
| KDZ 11B  | 11.000                   | 11.510 | 12.300 | 20.0      | 10.0                              | 8.0      |
| KDZ 12B  | 12.000                   | 12.500 | 13.500 | 20.0      | 10.0                              | 9.0      |
| KDZ 13B  | 13.300                   | 13.820 | 15.000 | 20.0      | 10.0                              | 10.0     |
| KDZ 15B  | 14.700                   | 15.350 | 16.500 | 20.0      | 10.0                              | 11.0     |
| KDZ 16B  | 16.200                   | 16.860 | 18.300 | 20.0      | 10.0                              | 12.0     |
| KDZ 18B  | 18.000                   | 19.000 | 20.300 | 20.0      | 10.0                              | 13.0     |
| KDZ 20B  | 20.000                   | 20.820 | 22.400 | 20.0      | 10.0                              | 15.0     |
| KDZ 22B  | 22.000                   | 23.850 | 24.500 | 10.0      | 10.0                              | 17.0     |
| KDZ 24B  | 24.000                   | 25.310 | 27.600 | 10.0      | 10.0                              | 19.0     |
| KDZ 27B  | 27.000                   | 28.700 | 30.800 | 10.0      | 10.0                              | 21.0     |
| KDZ 30B  | 30.000                   | 31.570 | 34.000 | 10.0      | 10.0                              | 23.0     |
| KDZ 33B  | 33.000                   | 34.950 | 37.000 | 10.0      | 10.0                              | 25.0     |
| KDZ 36B  | 36.000                   | 39.240 | 40.000 | 10.0      | 10.0                              | 27.0     |

\*The Zener voltage ( $V_Z$ ) is measured 40ms after power is supplied.

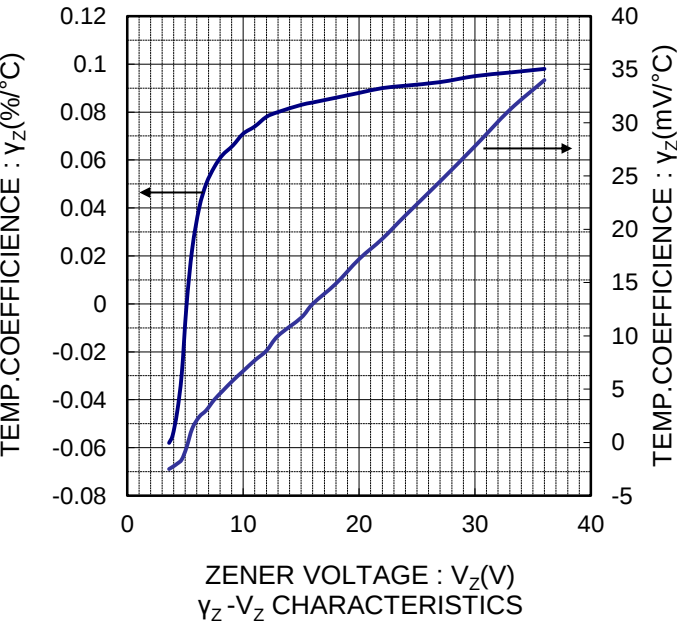
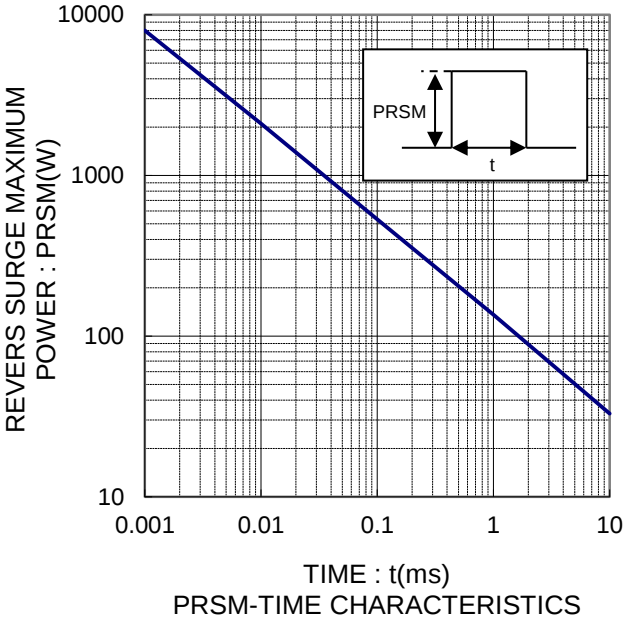
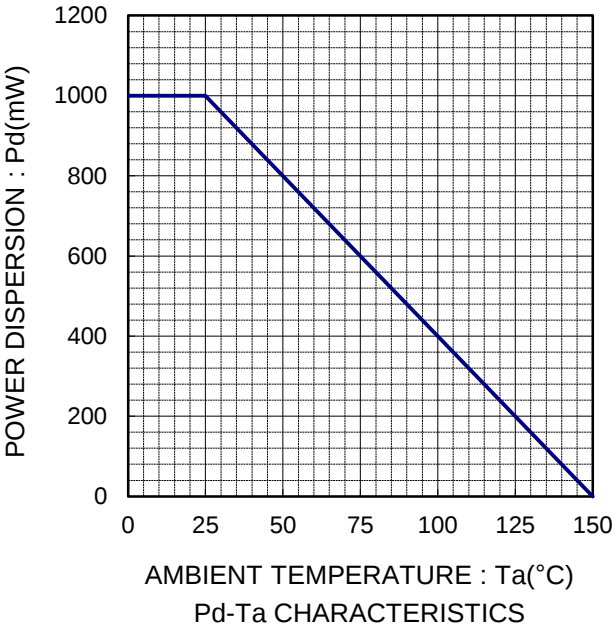
●MARKING (TYPE NO.)

| TYPE     | TYPE NO. | TYPE    | TYPE NO. |
|----------|----------|---------|----------|
| KDZ 3.6B | GB       | KDZ 12B | VB       |
| KDZ 3.9B | HB       | KDZ 13B | WB       |
| KDZ 4.3B | JB       | KDZ 15B | XB       |
| KDZ 4.7B | KB       | KDZ 16B | YB       |
| KDZ 5.1B | LB       | KDZ 18B | ZB       |
| KDZ 5.6B | MB       | KDZ 20B | AD       |
| KDZ 6.2B | NB       | KDZ 22B | BD       |
| KDZ 6.8B | PB       | KDZ 24B | CD       |
| KDZ 7.5B | QB       | KDZ 27B | DD       |
| KDZ 8.2B | RB       | KDZ 30B | ED       |
| KDZ 9.1B | SB       | KDZ 33B | FD       |
| KDZ 10B  | TB       | KDZ 36B | GD       |
| KDZ 11B  | UB       |         |          |

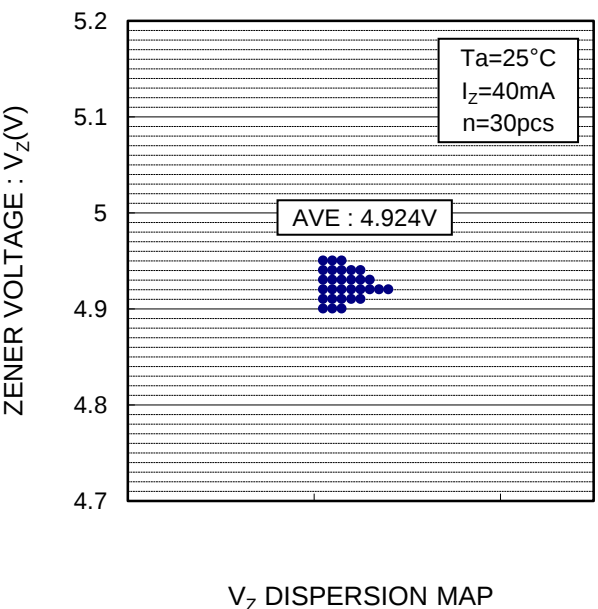
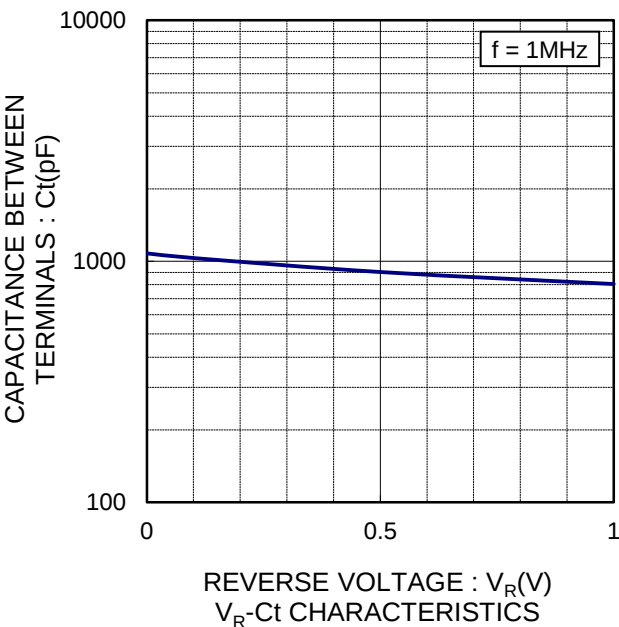
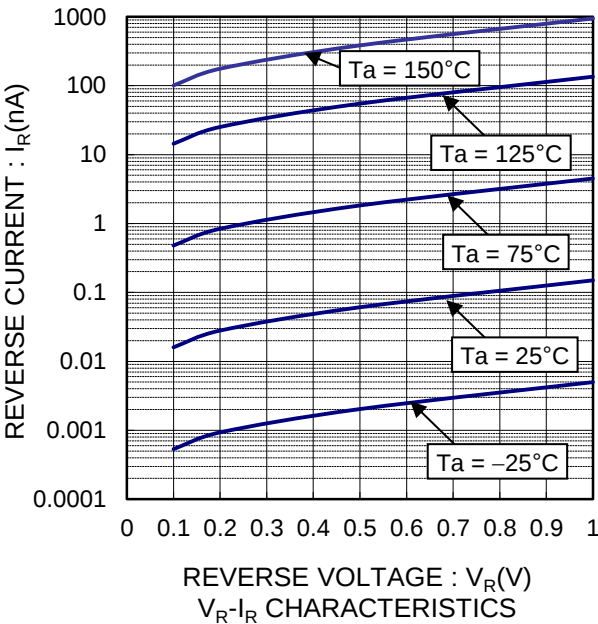
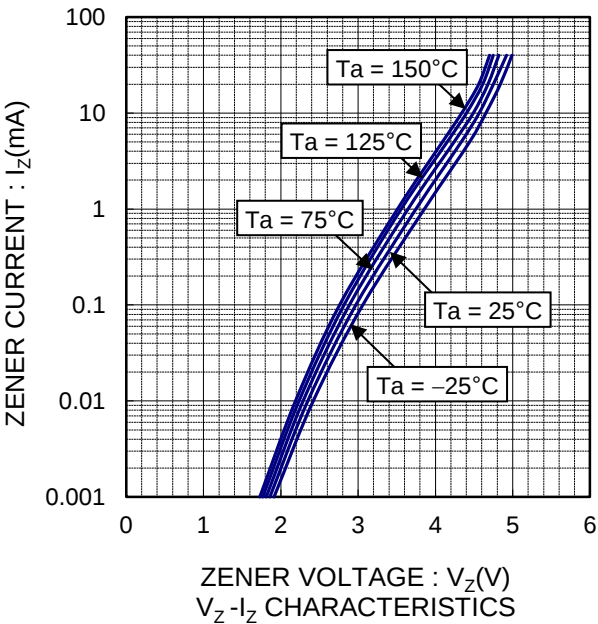
●Electrical characteristic curves



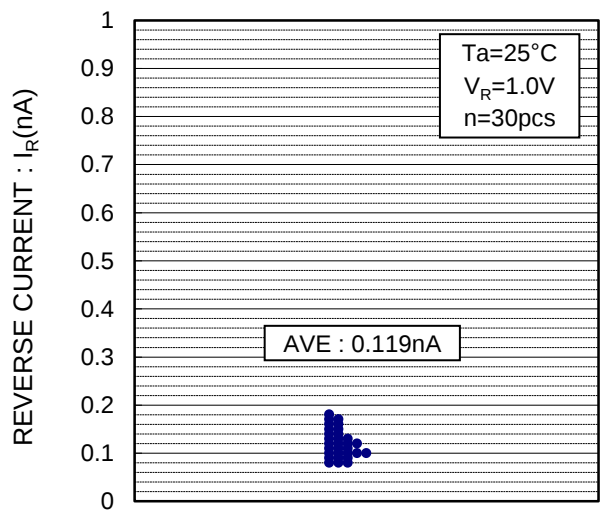
●Electrical characteristic curves



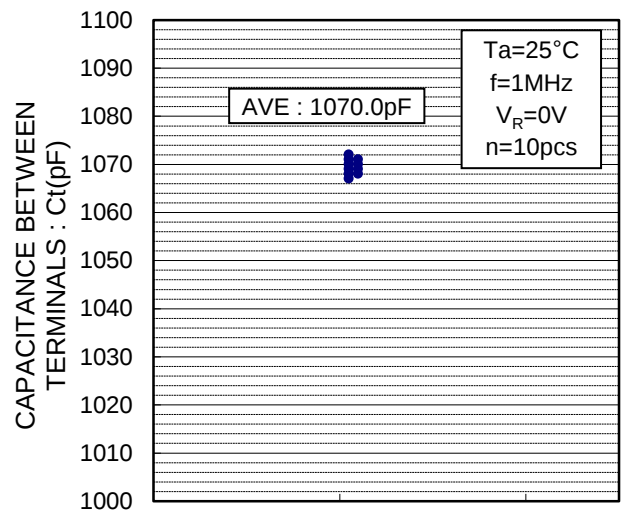
●Electrical characteristic curves



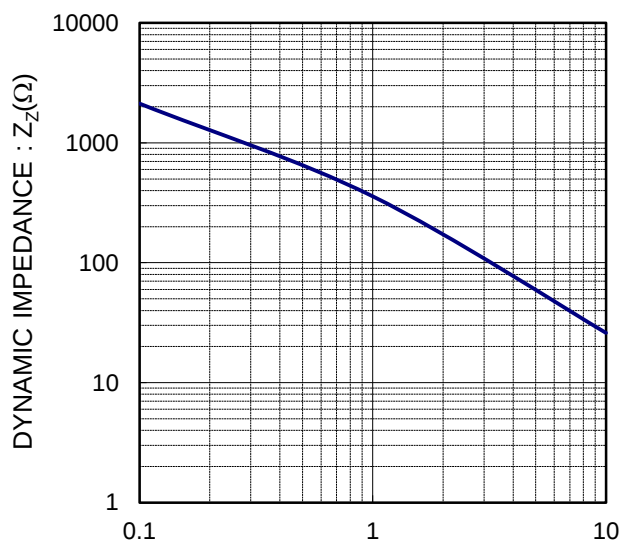
●Electrical characteristic curves



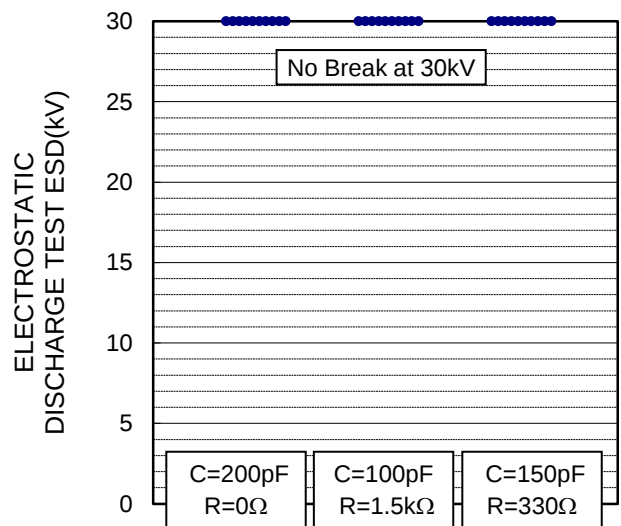
$I_R$  DISPERSION MAP



$C_t$  DISPERSION MAP



$Z_Z$ - $I_Z$  CHARACTERISTICS



ESD DISPERSION MAP

## Notes

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