

CONSTANT VOLTAGE REGULATION APPLICATION.
REFERENCE VOLTAGE APPLICATION.

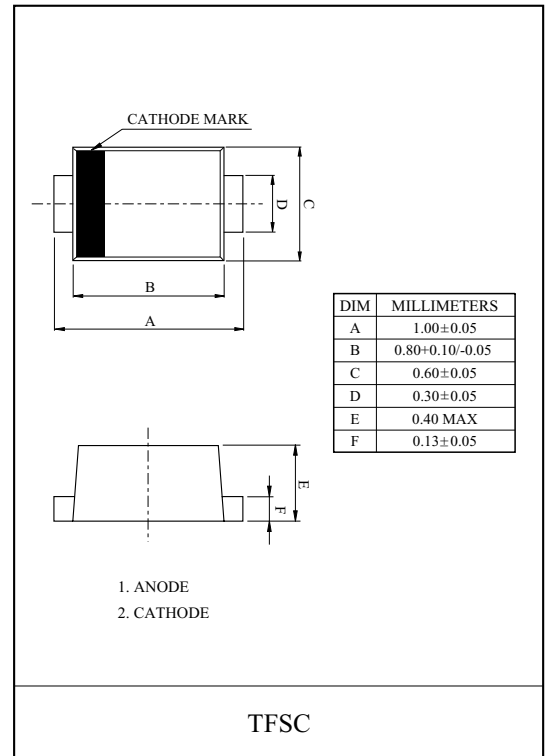
FEATURES

- Small Package : TFSC
- Sharp Breakdown Characteristic.

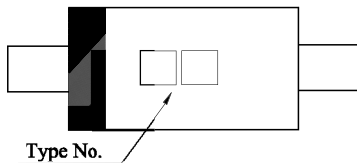
MAXIMUM RATING (Ta=25 °C)

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|---------------------------|-----------|-----------|------|
| Power Dissipation | P_D^* | 100 | mW |
| Junction Temperature | T_j | 150 | °C |
| Storage Temperature Range | T_{stg} | -55 ~ 150 | °C |

* Mounted on a glass epoxy circuit board of 20 × 20mm,
pad dimension of 4 × 4 mm.



Marking



| Type No. | Marking | | Type No. | Marking | | Type No. | Marking | | Type No. | Marking | |
|------------|---------|----|----------|---------|----|----------|---------|----|----------|---------|----|
| | - | Y | | - | Y | | - | Y | | - | Y |
| **KDZ2.0FV | 1F | 1P | KDZ4.3FV | 4F | 4P | KDZ9.1FV | EF | EP | KDZ20FV | MF | MP |
| **KDZ2.2FV | 7F | 7P | KDZ4.7FV | 5F | 5P | KDZ10FV | UF | UP | KDZ22FV | NF | NP |
| **KDZ2.4FV | 8F | YF | KDZ5.1FV | 6F | 6P | KDZ11FV | GF | GP | KDZ24FV | QF | QP |
| **KDZ2.7FV | CF | ZF | KDZ5.6FV | 8P | 8 | KDZ12FV | HF | HP | KDZ27FV | RF | RP |
| **KDZ3.0FV | VF | YP | KDZ6.2FV | 9F | 9P | KDZ13FV | JF | JP | KDZ30FV | SF | SP |
| **KDZ3.3FV | WF | ZP | KDZ6.8FV | BF | BP | KDZ15FV | KF | KP | KDZ33FV | AP | AF |
| **KDZ3.6FV | 2F | 2P | KDZ7.5FV | PF | PP | KDZ16FV | 91 | 9 | KDZ36FV | TF | TP |
| **KDZ3.9FV | 3F | 3P | KDZ8.2FV | DF | DP | KDZ18FV | LF | LP | - | - | - |

**Under Development

KDZ2.0FV~36FV

ELECTRICAL CHARACTERISTICS (Ta=25 °C)

| TYPE No. | Grade | Zener Voltage Vz (V) | | | Dynamic Impedance Zz (Ω) | | KNEE Dynamic Impedance Zzk (Ω) | | Reverse Current IR (μA) | |
|----------|-------|----------------------|-------|---------|--------------------------|---------|--------------------------------|---------|-------------------------|-------|
| | | Min. | Max. | Iz (mA) | MAX. | Iz (mA) | MAX. | Iz (mA) | MAX. | VR(V) |
| KDZ2.0FV | - | 1.85 | 2.15 | 5 | 100 | 5 | 1000 | 0.5 | 120 | 1.0 |
| | Y | 1.95 | 2.15 | | | | | | | |
| KDZ2.2FV | - | 2.05 | 2.38 | 5 | 100 | 5 | 1000 | 0.5 | 120 | 1.0 |
| | Y | 2.16 | 2.38 | | | | | | | |
| KDZ2.4FV | - | 2.28 | 2.60 | 5 | 100 | 5 | 1000 | 0.5 | 120 | 1.0 |
| | Y | 2.40 | 2.60 | | | | | | | |
| KDZ2.7FV | - | 2.50 | 2.90 | 5 | 110 | 5 | 1000 | 0.5 | 120 | 1.0 |
| | Y | 2.65 | 2.90 | | | | | | | |
| KDZ3.0FV | - | 2.80 | 3.20 | 5 | 120 | 5 | 1000 | 0.5 | 50 | 1.0 |
| | Y | 2.95 | 3.20 | | | | | | | |
| KDZ3.3FV | - | 3.10 | 3.50 | 5 | 130 | 5 | 1000 | 0.5 | 20 | 1.0 |
| | Y | 3.25 | 3.50 | | | | | | | |
| KDZ3.6FV | - | 3.40 | 3.80 | 5 | 130 | 5 | 1000 | 0.5 | 10 | 1.0 |
| | Y | 3.60 | 3.845 | | | | | | | |
| KDZ3.9FV | - | 3.70 | 4.10 | 5 | 130 | 5 | 1000 | 0.5 | 10 | 1.0 |
| | Y | 3.89 | 4.16 | | | | | | | |
| KDZ4.3FV | - | 4.00 | 4.50 | 5 | 130 | 5 | 1000 | 0.5 | 5 | 1.0 |
| | Y | 4.17 | 4.43 | | | | | | | |
| KDZ4.7FV | - | 4.40 | 4.90 | 5 | 120 | 5 | 1000 | 0.5 | 5 | 1.0 |
| | Y | 4.55 | 4.75 | | | | | | | |
| KDZ5.1FV | - | 4.80 | 5.40 | 5 | 70 | 5 | 1000 | 0.5 | 1 | 1.5 |
| | Y | 4.98 | 5.20 | | | | | | | |
| KDZ5.6FV | - | 5.30 | 6.00 | 5 | 40 | 5 | 900 | 0.5 | 1 | 2.5 |
| | Y | 5.49 | 5.73 | | | | | | | |
| KDZ6.2FV | - | 5.80 | 6.60 | 5 | 30 | 5 | 500 | 0.5 | 1 | 3.0 |
| | Y | 6.06 | 6.33 | | | | | | | |
| KDZ6.8FV | - | 6.40 | 7.20 | 5 | 25 | 5 | 150 | 0.5 | 0.5 | 5.0 |
| | Y | 6.65 | 6.93 | | | | | | | |
| KDZ7.5FV | - | 7.00 | 7.90 | 5 | 23 | 5 | 120 | 0.5 | 0.5 | 6.0 |
| | Y | 7.28 | 7.60 | | | | | | | |
| KDZ8.2FV | - | 7.70 | 8.70 | 5 | 20 | 5 | 120 | 0.5 | 0.5 | 6.5 |
| | Y | 8.02 | 8.36 | | | | | | | |
| KDZ9.1FV | - | 8.50 | 9.60 | 5 | 18 | 5 | 120 | 0.5 | 0.5 | 7.0 |
| | Y | 8.85 | 9.23 | | | | | | | |
| KDZ10FV | - | 9.40 | 10.60 | 5 | 15 | 5 | 120 | 0.5 | 0.5 | 8.0 |
| | Y | 9.77 | 10.21 | | | | | | | |

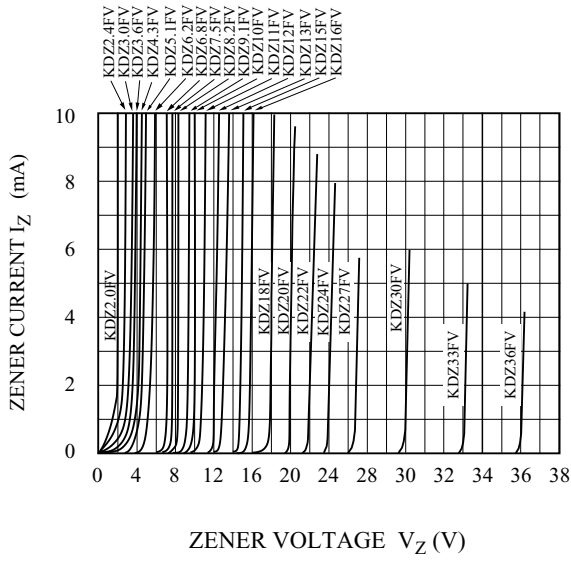
KDZ2.0FV~36FV

ELECTRICAL CHARACTERISTICS (Ta=25 °C)

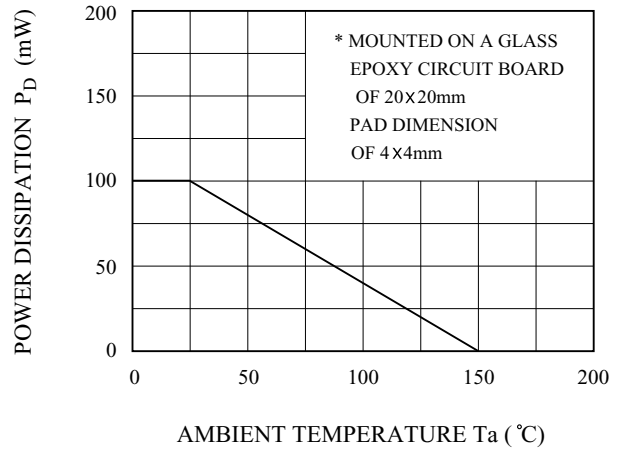
| TYPE No. | Grade | Zener Voltage Vz (V) | | | Dynamic Impedance Zz (Ω) | | KNEE Dynamic Impedance Zzk (Ω) | | Reverse Current IR (μA) | |
|----------|-------|----------------------|-------|---------|--------------------------|---------|--------------------------------|---------|-------------------------|-------|
| | | Min. | Max. | Iz (mA) | MAX. | Iz (mA) | MAX. | Iz (mA) | MAX. | VR(V) |
| KDZ11FV | - | 10.40 | 11.60 | 5 | 15 | 5 | 120 | 0.5 | 0.5 | 8.5 |
| | Y | 10.76 | 11.22 | | | | | | | |
| KDZ12FV | - | 11.40 | 12.60 | 5 | 15 | 5 | 110 | 0.5 | 0.5 | 9.0 |
| | Y | 11.74 | 12.24 | | | | | | | |
| KDZ13FV | - | 12.40 | 14.10 | 5 | 15 | 5 | 110 | 0.5 | 0.5 | 10 |
| | Y | 12.91 | 13.49 | | | | | | | |
| KDZ15FV | - | 13.80 | 15.60 | 5 | 15 | 5 | 110 | 0.5 | 0.5 | 11 |
| | Y | 14.34 | 14.98 | | | | | | | |
| KDZ16FV | - | 15.30 | 17.10 | 5 | 18 | 5 | 150 | 0.5 | 0.5 | 12 |
| | Y | 15.85 | 16.51 | | | | | | | |
| KDZ18FV | - | 16.80 | 19.10 | 5 | 20 | 5 | 150 | 0.5 | 0.5 | 14 |
| | Y | 17.56 | 18.35 | | | | | | | |
| KDZ20FV | - | 18.80 | 21.20 | 5 | 25 | 5 | 200 | 0.5 | 0.5 | 15 |
| | Y | 19.52 | 20.39 | | | | | | | |
| KDZ22FV | - | 20.80 | 23.30 | 5 | 30 | 5 | 200 | 0.5 | 0.5 | 17 |
| | Y | 21.54 | 22.47 | | | | | | | |
| KDZ24FV | - | 22.80 | 25.60 | 5 | 40 | 5 | 200 | 0.5 | 0.5 | 19 |
| | Y | 23.72 | 24.78 | | | | | | | |
| KDZ27FV | - | 25.10 | 28.90 | 2 | 150 | 2 | 150 | 0.5 | 0.1 | 21 |
| | Y | 26.19 | 27.53 | | | | | | | |
| KDZ30FV | - | 28.00 | 32.00 | 2 | 200 | 2 | 200 | 0.5 | 0.1 | 23 |
| | Y | 29.19 | 30.69 | | | | | | | |
| KDZ33FV | - | 31.00 | 35.00 | 2 | 250 | 2 | 250 | 0.5 | 0.1 | 25 |
| | Y | 32.15 | 33.79 | | | | | | | |
| KDZ36FV | - | 34.00 | 38.00 | 2 | 300 | 2 | 300 | 0.5 | 0.1 | 27 |
| | Y | 35.07 | 36.87 | | | | | | | |

KDZ2.0FV~36FV

$I_Z - V_Z$



$P_D - T_a$



$\gamma_Z - V_Z$

