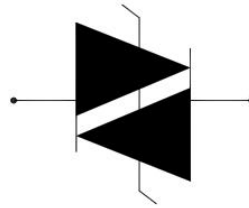
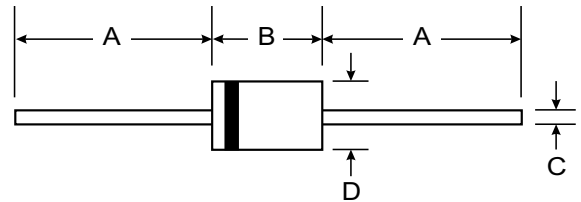
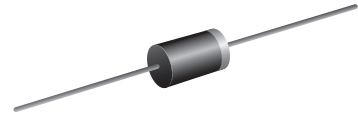


Features

- Excellent capability of absorbing transient surge
- Quick response to surge voltage (ns Level)
- Glass passivated junctions
- High voltage lcmp ignitors

Mechanical Data

- Case : DO-15 Molded plastic
- Epoxy : UL94V-O rate flame retardant
- Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- Polarity : Color band denotes cathode end
- Mounting position : Any
- Weight : 0.465 gram



| DO-15 | | |
|----------------------|-------|-------|
| Dim | Min | Max |
| A | 25.40 | — |
| B | 5.50 | 7.62 |
| C | 0.686 | 0.889 |
| D | 2.60 | 3.60 |
| All Dimensions in mm | | |

Functional Diagram

Maximum Ratings and Electrical Characteristics T_A = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

| Symbol | Parameter | Value | Units |
|-----------|--|-------------|-------|
| I_{TSM} | Maximum surge on-state current non-repetitive one cycle peak value (50Hz) | 16.7 | A |
| di_T/dt | Critical rate-of-rise of on-state current | 80 | A |
| I_T | On-state RMS Current | 1 | A |
| T_{stg} | Storage temperature range | -40 to +125 | °C |
| T_j | Operating junction temperature range | -40 to +125 | °C |

Electrical Characteristics (@ 25°C Unless Otherwise Specified)

| Part Number | V _{DRM@IDRM} | | V _{BO} | | I _{BO} | v _{T@IT=1A} | R _s | I _H |
|-------------|-----------------------|-----|-----------------|-----|-----------------|----------------------|----------------|----------------|
| | V | uA | V | | uA | V | K | mA |
| | Min | Max | Min | Max | Max | Max | Min | Min |
| K0900G | 70 | 1 | 80 | 97 | 50 | 2 | 0.1 | 10 |
| K1050G | 90 | 1 | 95 | 113 | 50 | 2 | 0.1 | 10 |
| K1200G | 100 | 1 | 110 | 125 | 50 | 2 | 0.1 | 10 |
| K1300G | 110 | 1 | 120 | 138 | 50 | 2 | 0.1 | 10 |
| K1400G | 120 | 1 | 130 | 146 | 50 | 2 | 0.1 | 10 |
| K1500G | 130 | 1 | 140 | 170 | 50 | 2 | 0.1 | 10 |
| K1800G | 160 | 1 | 170 | 195 | 50 | 2 | 0.1 | 10 |
| K2000G | 180 | 1 | 190 | 215 | 50 | 2 | 0.1 | 10 |
| K2200G | 190 | 1 | 205 | 230 | 50 | 2 | 0.1 | 10 |
| K2400G | 200 | 1 | 220 | 250 | 50 | 2 | 0.1 | 10 |
| K2600G | 220 | 1 | 240 | 270 | 50 | 2 | 0.1 | 10 |

Electrical Characteristics (@ 25°C Unless Otherwise Specified)

| Symbol | Parameter |
|------------------|------------------------|
| V _{DRM} | Peak off-state voltage |
| I _{DRM} | Off-state current |
| V _s | Switching voltage |
| I _s | Switching current |
| R _s | Switching resistance |
| V _T | On-state voltage |
| I _H | Holding current |
| V _{BO} | Break over Voltage |
| I _{BO} | Break over current |

V-I Curve

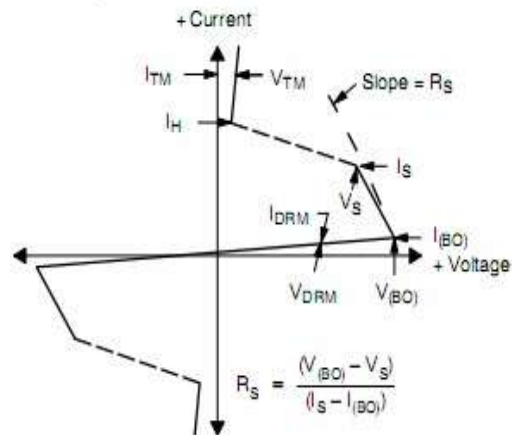


Figure 1-Normalized vs change vs. junction temperature

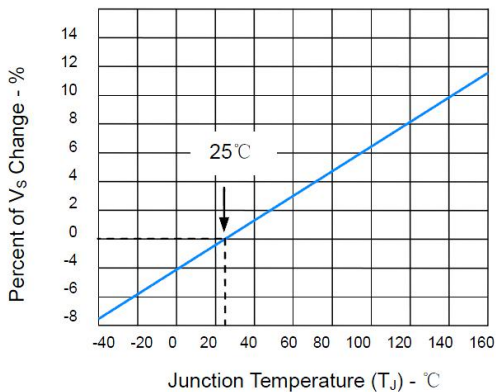
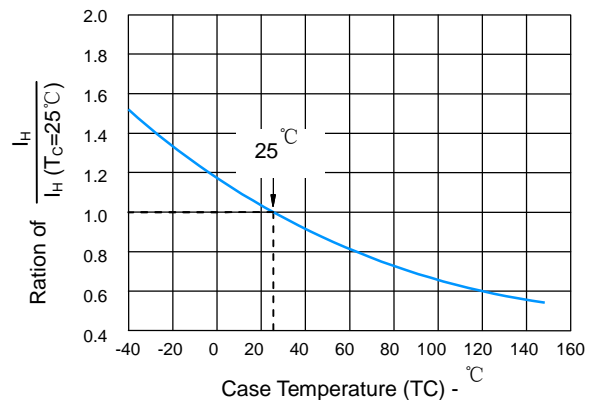
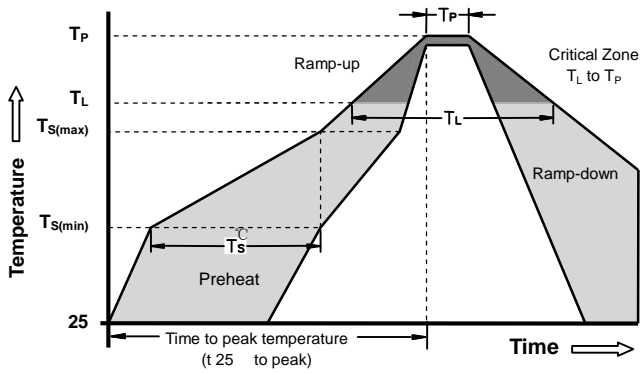


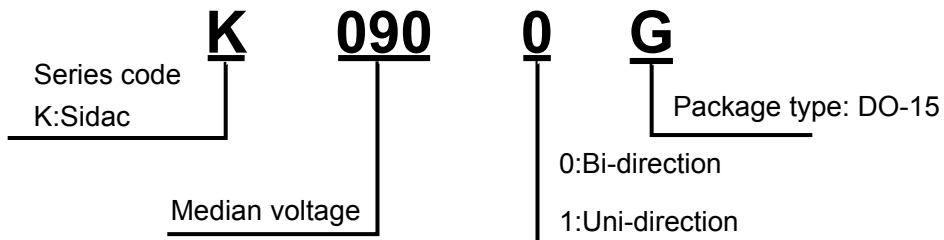
Figure 2- Normalized DC holding current vs.case temperature





Soldering Parameters

| Reflow Condition | | Lead-free assembly |
|--|------------------------------------|--------------------|
| Pre Heat | -Temperature Min ($T_{s(min)}$) | +150°C |
| | -Temperature Max ($T_{s(max)}$) | +200°C |
| | -Time (min to max) (t_s) | 60 -180 Seconds |
| Average ramp up rate (Liquidus Temp T_L to peak) | | 3°C/Second Max |
| $T_{s(max)}$ to T_L - Ramp-up Rate | | 3°C/Second Max |
| Reflow | - Temperature (T_L) (Liquidus) | +217°C |
| | - Time (min to max) (t_s) | 60 -150 Seconds |
| Peak Temperature (T_P) | | 260 +0/-5°C |
| Time within 5°C of actual peak Temperature (t_p) | | 8-15 Seconds |
| Ramp-down Rate | | 6°C/Second Max |
| Time 25°C to peak Temperature (T_P) | | 8 minutes Max |
| Do not exceed | | +260°C |



Ordering Information