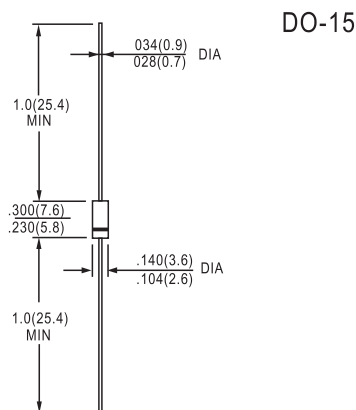


## FEATURES

- Max. solder temperature: 260°C
- Plastic material has UL classification 94V-0

## MECHANICAL DATA

- Plastic case DO-201
- Weight approx.: 1 g
- Terminals: plated terminals solderable per MIL-STD-750
- Mounting position: any
- Standard packaging: 1700 pieces per ammo



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

| Type    | Repetitive peak reverse voltage<br>$V_{RRM}$<br>V | Surge peak reverse voltage<br>$V_{RSM}$<br>V | Max. reverse recovery time<br>$I_F = -A$<br>$I_R = -A$<br>$I_{RR} = -A$<br>$t_{rr}$<br>ns | Max. forward voltage<br>$V_F^{(2)}$ |
|---------|---|--|---|-------------------------------------|
| BY 226G | 450   | 650  | -   | 1,3                                 |
| BY 227G | 800   | 1250   | -   | 1,3                                 |
| BY 228G | 1500  | 1800   | -   | 1,3                                 |

### Absolute Maximum Ratings

| Symbol    | Condition  | Values     | Units                |
|-----------|--|------------|----------------------|
| $I_{FAV}$ | Max. averaged fwd. current, R-load, $T_A = 50^\circ\text{C}^{(1)}$ | 3          | A                    |
| $I_{FRM}$ | Repetitive peak forward current $f > 15\text{ Hz}^{(1)}$           | 10         | A                    |
| $I_{FSM}$ | Peak forward surge current 50 Hz half sinus-wave $^{(3)}$          | 50         | A                    |
| $i^2t$    | Rating for fusing, $t < 10\text{ ms}^{(3)}$                        | 12,5       | $\text{A}^2\text{s}$ |
| $R_{thA}$ | Max. thermal resistance junction to ambient $^{(1)}$               | 45         | K/W                  |
| $R_{thT}$ | Max. thermal resistance junction to terminals $^{(1)}$             | -          | K/W                  |
| $T_j$     | Operating junction temperature                                     | -50...+175 | $^\circ\text{C}$     |
| $T_s$     | Storage temperature  | -50...+175 | $^\circ\text{C}$     |

**RATINGS AND CHARACTERISTIC CURVES BY226G,BY227G,BY228G**

| Characteristics |   |        |               |
|-----------------|---|--------|---------------|
| Symbol          | Conditions  | Values | Units         |
| $I_R$           | Maximum leakage current, $T_j = 25\text{ }^\circ\text{C}$ ; $V_R = V_{RRM}$   | <10    | $\mu\text{A}$ |
|                 | $T_j = 100\text{ }^\circ\text{C}$ ; $V_R = V_{RRM}$   | <50    | $\mu\text{A}$ |
| $C_J$           | Typical junction capacitance<br>(at MHz and applied reverse voltage of V)   | -      | pF            |
| $Q_{rr}$        | Reverse recovery charge<br>( $U_R = V$ ; $I_F = A$ ; $dI_F/dt = A/ms$ )   | -      | $\mu\text{C}$ |
| $E_{RSM}$       | Non repetitive peak reverse avalanche energy<br>( $I_R = \text{mA}$ ; $T_j = \text{ }^\circ\text{C}$ ; inductive load switched off) | -      | mJ            |

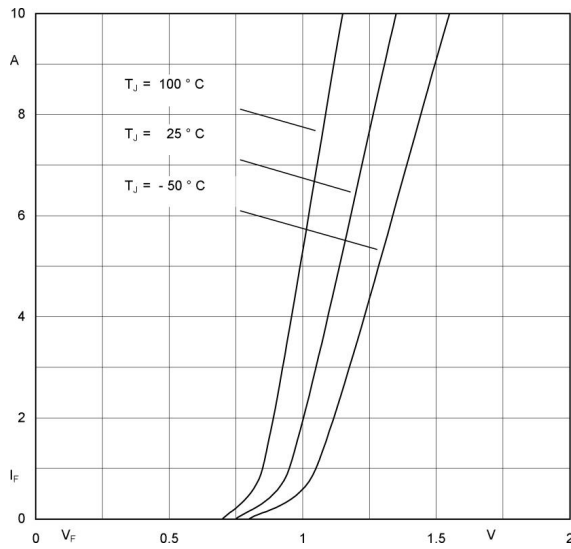


Fig. 1 Forward characteristic ( typical values )

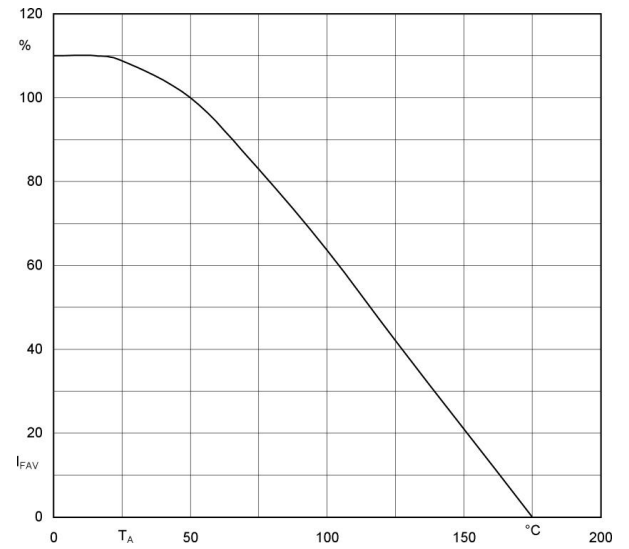


Fig. 2 Rated forward current vs. ambient temperature <sup>1)</sup>

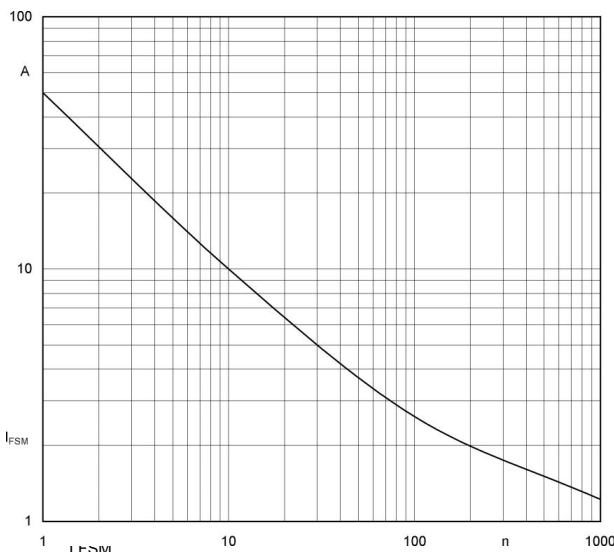


Fig. 3 current versus number of cycles at 50 Hz