

# Discretes / Diodes / Leaded

Type

|  | Voltage (V) | Current (A) | T <sub>C</sub> | I <sub>FSM</sub> @T <sub>J</sub> =25°C | V <sub>F</sub> | R <sub>th(j-c)</sub> per chip | T <sub>J</sub> | Case | Topology Picture |
|--|-------------|-------------|----------------|----------------------------------------|----------------|-------------------------------|----------------|------|------------------|
|  | V           | A           | °C             | A                                      | V              | K/W                           | °C             |      |                  |

### Standard recovery

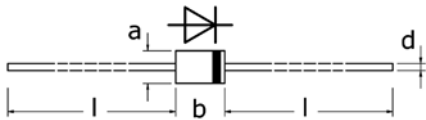
|         |           |      |    |     |      |    |              |     |  |
|---------|-----------|------|----|-----|------|----|--------------|-----|--|
| SK 1    | 1000-1600 | 1.45 | 60 | 60  | 1.50 | 85 | -40 ... +150 | E33 |  |
| SKN 2,5 | 400-1600  | 2.5  | 45 | 180 | 1.20 | 55 | -40 ... +180 | E5  |  |
| SK 3    | 1000-1600 | 3.3  | 85 | 180 | 1.20 | 60 | -40 ... +150 | E34 |  |
| SKN 5   | 200-1600  | 5    | 45 | 190 | 1.25 | 25 | -40 ... +180 | E6  |  |

### Avalanche

|       |           |      |    |     |      |    |              |     |  |
|-------|-----------|------|----|-----|------|----|--------------|-----|--|
| SKa1  | 1300-1700 | 1.45 | 60 | 60  | 1.50 | 85 | -40 ... +150 | E33 |  |
| SKNa2 | 1300-1700 | 2    | 45 | 180 | 1.20 | 55 | -40 ... +150 | E5  |  |
| SKa3  | 1300-1700 | 3.3  | 90 | 180 | 1.20 | 60 | -40 ... +150 | E34 |  |
| SKNa4 | 1300-1700 | 3.7  | 35 | 190 | 1.20 | 25 | -40 ... +150 | E6  |  |

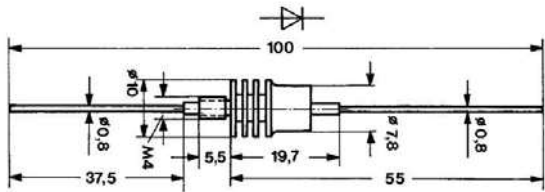
### Cases

E33 / E34

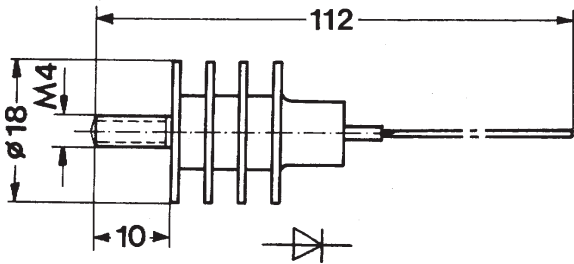


| Cases | a   | b | l  | d    |
|-------|-----|---|----|------|
| E 33  | 4,5 | 7 | 28 | 0,75 |
| E 34  | 6   | 9 | 27 | 1,18 |

E5



E6



Dimensions in mm

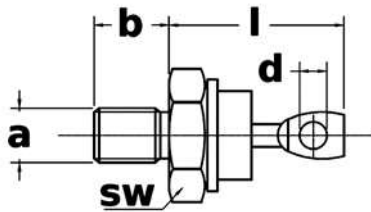
# Discretes / Diodes / Stud Screw Fit

| Type              |             |             |                |                                        |                |                               |                |      |                                                                                       |
|-------------------|-------------|-------------|----------------|----------------------------------------|----------------|-------------------------------|----------------|------|---------------------------------------------------------------------------------------|
|                   | Voltage (V) | Current (A) | T <sub>C</sub> | I <sub>FSM</sub> @T <sub>J</sub> =25°C | V <sub>F</sub> | R <sub>th(j-c)</sub> per chip | T <sub>J</sub> | Case |                                                                                       |
|                   | V           | A           | °C             | A                                      | V              | K/W                           | °C             |      | Topology Picture                                                                      |
| Standard recovery |             |             |                |                                        |                |                               |                |      |                                                                                       |
| SKN 20            | 400-1600    | 20          | 125            | 375                                    | 1.55           | 2                             | -40 ... +180   | E9   |    |
| SKN 26            | 400-1600    | 25          | 100            | 375                                    | 1.55           | 2                             | -40 ... +180   | E8   |                                                                                       |
| SKN 45            | 400-1600    | 45          | 125            | 700                                    | 1.60           | 0.85                          | -40 ... +180   | E12  |                                                                                       |
| SKN 70            | 400-1600    | 70          | 125            | 1150                                   | 1.50           | 0.55                          | -40 ... +180   | E12  |                                                                                       |
| SKN 71            | 400-1600    | 70          | 125            | 1150                                   | 1.50           | 0.55                          | -40 ... +180   | E11  |                                                                                       |
| SKN 100           | 400-1800    | 100         | 120            | 1750                                   | 1.55           | 0.45                          | -40 ... +180   | E13  |                                                                                       |
| SKN 130           | 400-1800    | 130         | 125            | 2500                                   | 1.50           | 0.35                          | -40 ... +180   | E14  |                                                                                       |
| SKN 240           | 400-1800    | 240         | 125            | 6000                                   | 1.40           | 0.2                           | -40 ... +180   | E15  |                                                                                       |
| SKN 320           | 400-1600    | 320         | 125            | 9000                                   | 1.35           | 0.16                          | -40 ... +180   | E16  |                                                                                       |
| SKN 400           | 1800-3000   | 400         | 100            | 9000                                   | 1.45           | 0.11                          | -40 ... +160   | E17  |                                                                                       |
| SKR 20            | 400-1600    | 20          | 125            | 375                                    | 1.55           | 2                             | -40 ... +180   | E9   |    |
| SKR 26            | 400-1600    | 25          | 100            | 375                                    | 1.55           | 2                             | -40 ... +180   | E8   |                                                                                       |
| SKR 45            | 400-1600    | 45          | 125            | 700                                    | 1.60           | 0.85                          | -40 ... +180   | E12  |                                                                                       |
| SKR 70            | 400-1600    | 70          | 125            | 1150                                   | 1.50           | 0.55                          | -40 ... +180   | E12  |                                                                                       |
| SKR 71            | 400-1600    | 70          | 125            | 1150                                   | 1.50           | 0.55                          | -40 ... +180   | E11  |                                                                                       |
| SKR 100           | 400-1800    | 100         | 120            | 1750                                   | 1.55           | 0.45                          | -40 ... +180   | E13  |                                                                                       |
| SKR 130           | 400-1800    | 130         | 125            | 2500                                   | 1.50           | 0.35                          | -40 ... +180   | E14  |                                                                                       |
| SKR 240           | 400-1800    | 240         | 125            | 6000                                   | 1.40           | 0.2                           | -40 ... +180   | E15  |                                                                                       |
| SKR 320           | 400-1600    | 320         | 125            | 9000                                   | 1.35           | 0.16                          | -40 ... +180   | E16  |                                                                                       |
| Fast recovery     |             |             |                |                                        |                |                               |                |      |                                                                                       |
| SKN 2F17          | 400-1000    | 17          | 113            | 450                                    | 2.15           | 1.2                           | -40 ... +150   | E7   |  |
| SKN 3F20          | 800-1200    | 20          | 104            | 375                                    | 2.15           | 1.2                           | -40 ... +150   | E7   |                                                                                       |
| SKN 2F50          | 400-1000    | 50          | 105            | 1100                                   | 1.80           | 0.5                           | -40 ... +150   | E10  |                                                                                       |
| SKN 60F           | 1200-1700   | 60          | 100            | 1400                                   | 1.75           | 0.5                           | -40 ... +150   | E10  |                                                                                       |
| SKN 135F          | 800-1200    | 135         | 100            | 2500                                   | 1.95           | 0.2                           | -40 ... +150   | E14  |                                                                                       |
| SKN 136F          | 800-1200    | 135         | 100            | 2500                                   | 1.95           | 0.2                           | -40 ... +150   | E31  |                                                                                       |
| SKN 140F          | 1200-1700   | 140         | 100            | 2500                                   | 1.80           | 0.2                           | -40 ... +150   | E14  |                                                                                       |
| SKN 141F          | 1200-1700   | 140         | 100            | 2500                                   | 1.80           | 0.2                           | -40 ... +150   | E31  |                                                                                       |
| SKR 2F17          | 400-1000    | 17          | 113            | 450                                    | 2.15           | 1.2                           | -40 ... +150   | E7   |  |
| SKR 3F20          | 800-1200    | 20          | 104            | 375                                    | 2.15           | 1.2                           | -40 ... +150   | E7   |                                                                                       |
| SKR 2F50          | 400-1000    | 50          | 95             | 800                                    | 1.80           | 0.65                          | -40 ... +150   | E10  |                                                                                       |
| SKR 60F           | 1200-1700   | 60          | 100            | 1400                                   | 1.75           | 0.5                           | -40 ... +150   | E10  |                                                                                       |
| SKR 135F          | 800-1200    | 135         | 100            | 2500                                   | 1.95           | 0.2                           | -40 ... +150   | E14  |                                                                                       |
| SKR 136F          | 800-1200    | 135         | 100            | 2500                                   | 1.95           | 0.2                           | -40 ... +150   | E31  |                                                                                       |
| SKR 140F          | 1200-1700   | 140         | 100            | 2500                                   | 1.80           | 0.2                           | -40 ... +150   | E14  |                                                                                       |
| SKR 141F          | 1200-1700   | 140         | 100            | 2500                                   | 1.80           | 0.2                           | -40 ... +150   | E31  |                                                                                       |
| Avalanche         |             |             |                |                                        |                |                               |                |      |                                                                                       |
| SKNa 20           | 1300-1700   | 20          | 93             | 375                                    | 1.55           | 2                             | -40 ... +150   | E9   |  |
| SKNa 22           | 3600-5000   | 25          | 104            | 450                                    | 1.95           | 1                             | -40 ... +160   | E42  |                                                                                       |
| SKNa 47           | 3600-5000   | 45          | 106            | 700                                    | 1.80           | 0.6                           | -40 ... +160   | E43  |                                                                                       |
| SKNa 102          | 3600-5000   | 125         | 80             | 1900                                   | 1.90           | 0.3                           | -40 ... +160   | E44  |                                                                                       |
| SKNa 202          | 3600-5000   | 200         | 80             | 3800                                   | 1.95           | 0.2                           | -40 ... +160   | E45  |                                                                                       |
| SKNa 402          | 3600-5000   | 400         | 88             | 7800                                   | 1.85           | 0.1                           | -40 ... +160   | E46  |                                                                                       |

# Discretes / Diodes / Stud Screw Fit

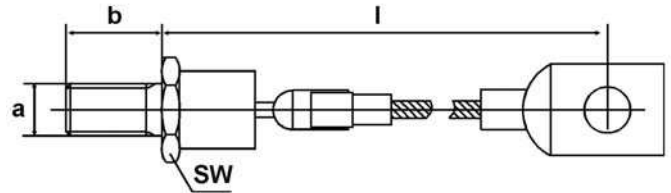
## Cases

E7 / E8 / E10 / E11 / E31



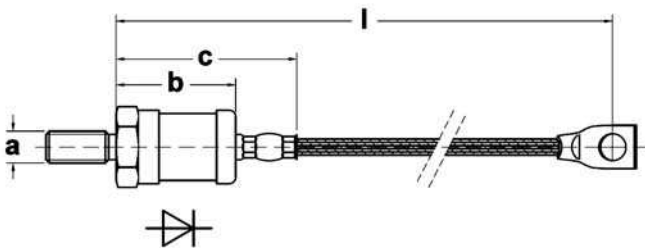
| Cases | a    | b  | d   | l    | sw |
|-------|------|----|-----|------|----|
| E 7   | M 5  | 11 | 2,7 | 22   | 11 |
| E 8   | M 6  | 11 | 2,7 | 21,5 | 11 |
| E 10  | M 6  | 11 | 4   | 25   | 17 |
| E 11  | M 8  | 11 | 4   | 25,5 | 17 |
| E 31  | M 12 | 18 | 8,4 | 55   | 24 |

E9 / E12 ... E17



| Cases      | a          | b  | l   | SW |
|------------|------------|----|-----|----|
| E 9        | M 6        | 11 | 130 | 11 |
| E 12       | M 8        | 11 | 135 | 17 |
| E 13       | M 12       | 18 | 165 | 24 |
| E 14       | M 12       | 18 | 165 | 24 |
| E 15       | M 16 x 1,5 | 20 | 190 | 32 |
| E 16, E 17 | M 24 x 1,5 | 20 | 230 | 41 |

E 42 / E 43 / E 44 / E 45 / E 46



| Cases | a          | b    | c  | l   |
|-------|------------|------|----|-----|
| E 42  | M 6        | 28.5 | 45 | 150 |
| E 43  | M 8        | 32   | 54 | 160 |
| E 44  | M 12       | 38   | 57 | 185 |
| E 45  | M 16 x 1,5 | 48   | 70 | 205 |
| E 46  | M 24 x 1,5 | 54   | 82 | 250 |

Dimensions in mm