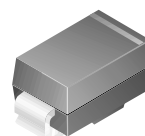


# FMKA130L

## Features

- Compact surface mount with J-bend leads (SMA)
- 1.2 Watt Power Dissipation package
- 1.0 Ampere, forward voltage less than 600 mV



**SMA (DO-214AC)**  
Color Band Denotes Cathode  
Mark: A130

## Schottky Rectifier

### Absolute Maximum Ratings\*

$T_A = 25^\circ\text{C}$  unless otherwise noted

| Symbol      | Parameter                                                     | Value       | Units            |
|-------------|---------------------------------------------------------------|-------------|------------------|
| $V_{RRM}$   | Maximum Repetitive Reverse Voltage                            | 30          | V                |
| $I_{F(AV)}$ | Average Rectified Forward Current @ $T_L = 120^\circ\text{C}$ | 1.0         | A                |
| $I_{FSM}$   | Non-repetitive Peak Forward Surge Current                     | 30          | A                |
| $T_{stg}$   | Storage Temperature Range                                     | -65 to +150 | $^\circ\text{C}$ |
| $T_j$       | Operating Junction Temperature                                | -65 to +125 | $^\circ\text{C}$ |

\*These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

### Thermal Characteristics

| Symbol          | Parameter                                                               | Value | Units              |
|-----------------|-------------------------------------------------------------------------|-------|--------------------|
| $R_{\theta JL}$ | Thermal Resistance Junction to Lead<br>(Half wave, single phase, 60 Hz) | 9.6   | $^\circ\text{C/W}$ |

### Electrical Characteristics

$T_A = 25^\circ\text{C}$  unless otherwise noted

| Symbol | Parameter                             | Value                                       | Units         |
|--------|---------------------------------------|---------------------------------------------|---------------|
| $V_F$  | Forward Voltage @ $I_F = 1.0\text{A}$ | 410                                         | mV            |
|        |                                       | $I_F = 1.0\text{A}, T_A = 85^\circ\text{C}$ | 350 mV        |
|        |                                       | $I_F = 2.0\text{A}$                         | 470 mV        |
|        |                                       | $I_F = 2.0\text{A}, T_A = 85^\circ\text{C}$ | 430 mV        |
| $I_R$  | Reverse Current @ $V_R = 15\text{V}$  | 400                                         | $\mu\text{A}$ |
|        |                                       | $V_R = 15\text{V}, T_A = 85^\circ\text{C}$  | 12 mA         |
|        |                                       | $V_R = 30\text{V}$                          | 1.0 mA        |
|        |                                       | $V_R = 30\text{V}, T_A = 85^\circ\text{C}$  | 25 mA         |

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| CROSSVOLT™                           | FRFET™              | MicroPak™          | QFET™               | SuperSOT™-8     |
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| Programmable Active Droop™           |                     | OPTOPLANAR™        | SMART START™        |                 |

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|--------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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