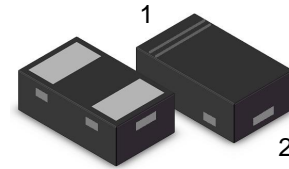


## Low VF Schottky barrier rectifier

### Features

- Forward current:  $I_F \leq 0.5\text{ A}$
- Reverse voltage:  $V_R \geq 40\text{ V}$
- Very low forward voltage
- Ultra small and flat lead SMD plastic package



SOD-882

### Application

- Low voltage rectification
- High efficiency DC-to-DC conversion
- Switch mode power supply
- Reverse polarity protection
- Low power consumption applications

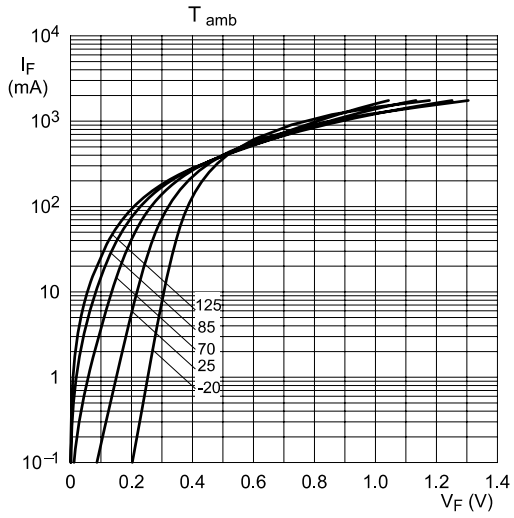
| Device    | Marking | Shipping        |
|-----------|---------|-----------------|
| MSK 4005D | KV      | 10000/Tape&Reel |

### Electrical Characteristic $T_a=25\text{ }^\circ\text{C}$

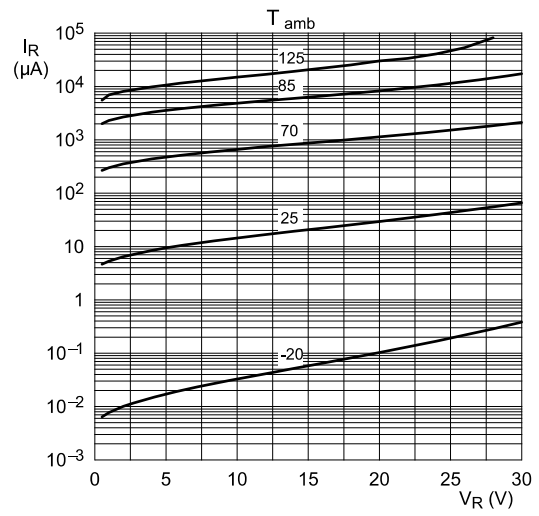
| Parameter                                      | Symbol                                | Spec. Limit |      |      | Unit             |
|--|---------------------------------------|-------------|------|------|------------------|
|  |                                       | Min.        | Typ. | Max. |                  |
| Max. Repetitive Peak Reverse Voltage<br>@0.5mA | $V_{RRM}$                             | 40          | 50   |      | V                |
| Max. Average Forward Rectified Current         | $I_{F(AV)}$                           |             |      | 0.5  | A                |
| Forward Voltage Drop @ $I_F=0.5\text{ A}$      | @ $25\text{ }^\circ\text{C}$<br>$V_F$ |             | 0.44 | 0.52 | V                |
| Max. Reverse Current at $V_{RRM}$<br>@40V      | @ $25\text{ }^\circ\text{C}$<br>$I_R$ |             | 25   | 50   | $\mu\text{A}$    |
| Operating Temperature Range                    | $T_J$                                 | -55         |      | +125 | $^\circ\text{C}$ |
| Storage Temperature Range                      | $T_{STG}$                             | -55         |      | +150 | $^\circ\text{C}$ |

#### NOTE

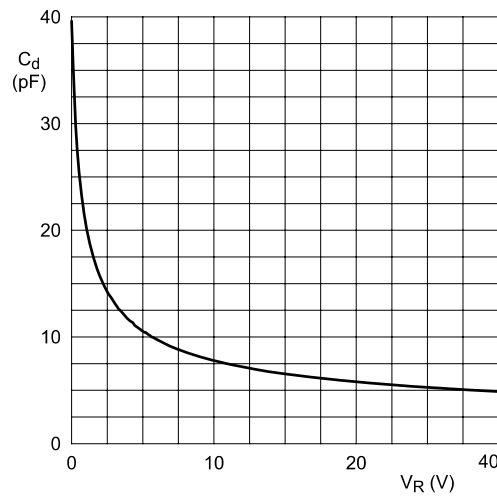
On behalf of the factory in the packaging and testing, to test the parameters at 25 C of the value, especially  $V_F$ ,  $I_R$  parameters, we need to know the products under different temperature conditions  $V_F$ ,  $I_R$ ,  $V_{BR}$  typical value, reference maximum value evaluation, finally please provide a detailed clear the parameter test table.



**Fig 1. Forward current as a function of forward voltage; typical values**



**Fig 2. Reverse current as a function of reverse voltage; typical values**



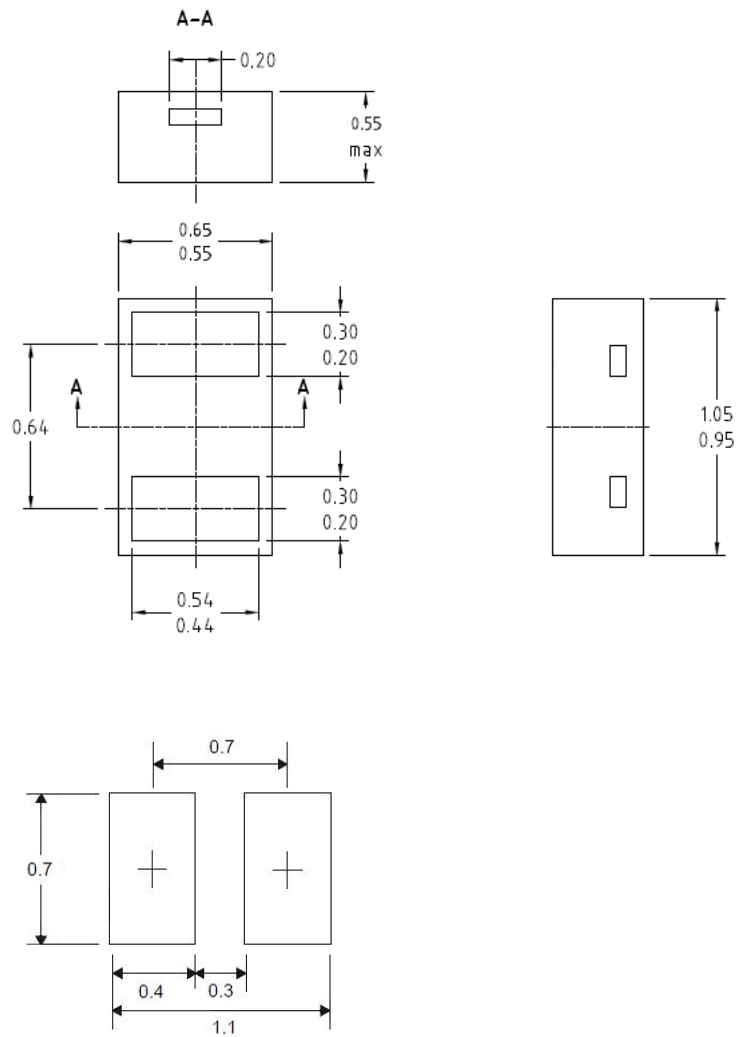
$f = 1 \text{ MHz}; T_{amb} = 25 \text{ }^\circ\text{C}$

**Fig 3. Diode capacitance as a function of reverse voltage; typical values**

PACKAGE DIMENSIONS

SOD-882

DIMENSION OUTLINE Unit:mm



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