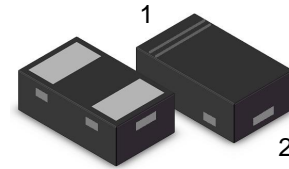


## Low VF Schottky barrier rectifier

### 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

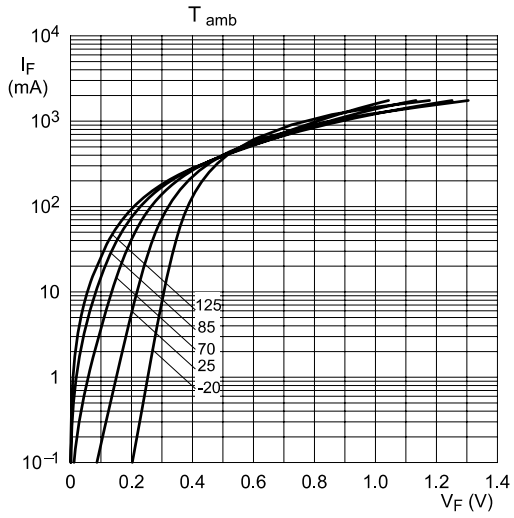
Device	Marking	Shipping
MSK 4005D	KV	10000/Tape&Reel

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

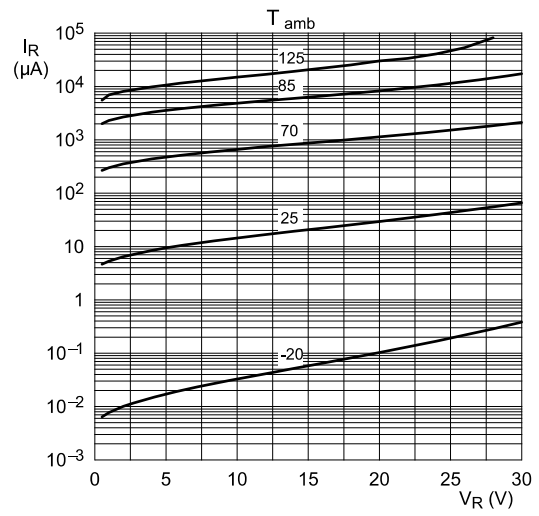
Parameter	Symbol	Spec. Limit			Unit
		Min.	Typ.	Max.	
Max. Repetitive Peak Reverse Voltage @0.5mA	$V_{RRM}$	40	50		V
Max. Average Forward Rectified Current	$I_{F(AV)}$			0.5	A
Forward Voltage Drop @ $I_F=0.5\text{ A}$	@ $25\text{ }^\circ\text{C}$ $V_F$		0.44	0.52	V
Max. Reverse Current at $V_{RRM}$ @40V	@ $25\text{ }^\circ\text{C}$ $I_R$		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

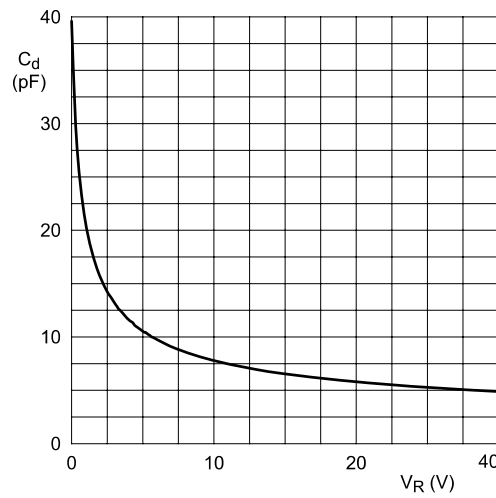
On behalf of the factory in the packaging and testing, to test the parameters at 25 C of the value, especially  $V_F$ ,  $I_R$  parameters, we need to know the products under different temperature conditions  $V_F$ ,  $I_R$ ,  $V_{BR}$  typical value, reference maximum value evaluation, finally please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

