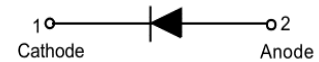
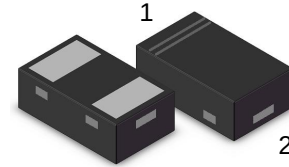


SCHOTTKY BARRIER DIODE

Reverse Voltage - 40V Forward Current - 0.5A

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



Application

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

SOD-882

Device	Marking	Shipping
MSK 4005D	K V	10000/Tape&Reel

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

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°C	V_F		0.44	0.52	V
Max. Reverse Current at V_{RRM} @40V	@ 25°C	I_R		25	50	μA
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.

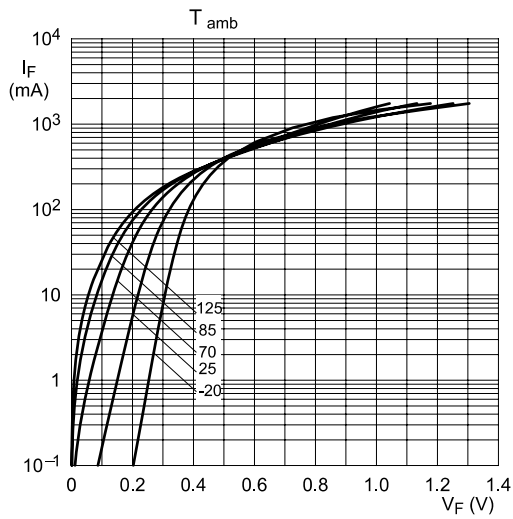


Fig 1. Forward current as a function of forward voltage; typical values

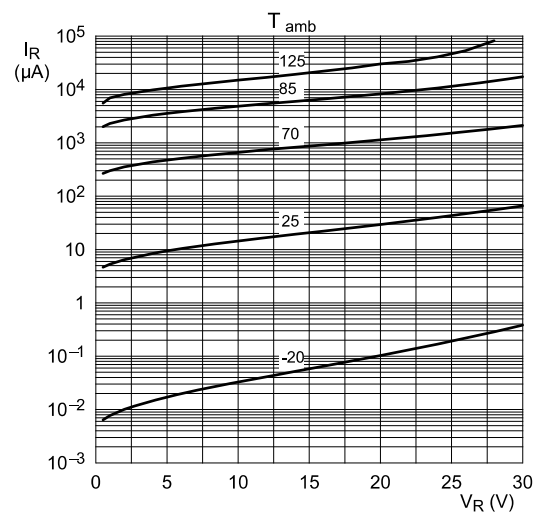
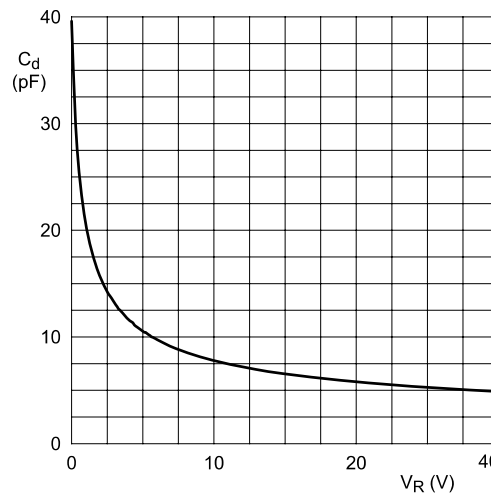


Fig 2. Reverse current as a function of reverse voltage; typical values



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

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

PACKAGE DIMENSIONS

SOD-882

DIMENSION OUTLINE Unit:mm

