



MSK4005D

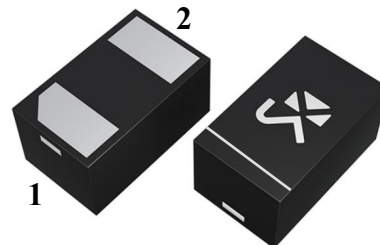
Schottky Barrier Diode

Reverse Voltage - 40V

Forward Current - 0.5A

Features

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



DFN1006

Applications

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



Ordering Information

Device	Marking	Shipping
MSK4005D	KV	10000/Tape&Reel

Electrical Characteristics ($T_A=25^\circ C$)

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

Note:

On behalf of the factory in the packaging and testing, to test the parameters at $25^\circ C$ 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.



Typical Characteristics

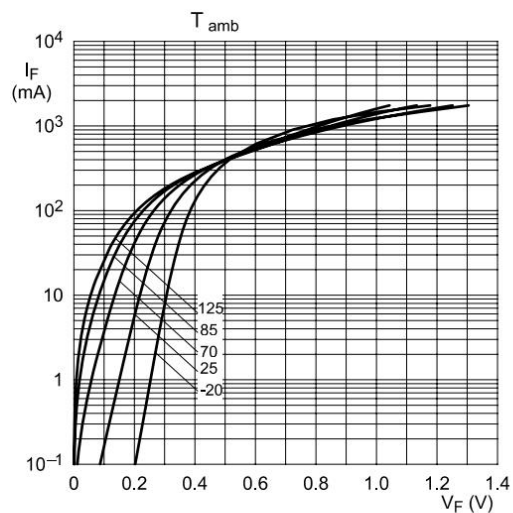


Fig 1. Forward current as a function of forward voltage; typical values

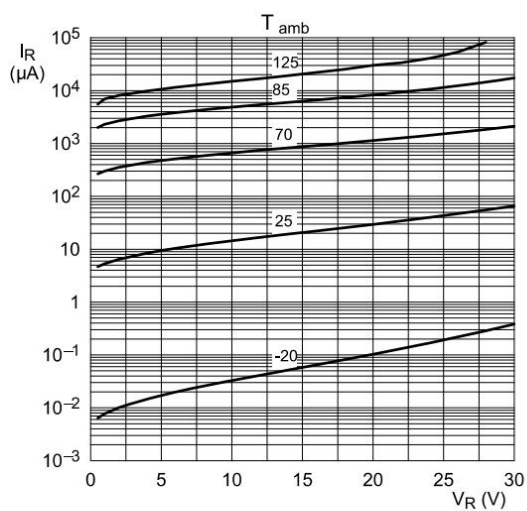
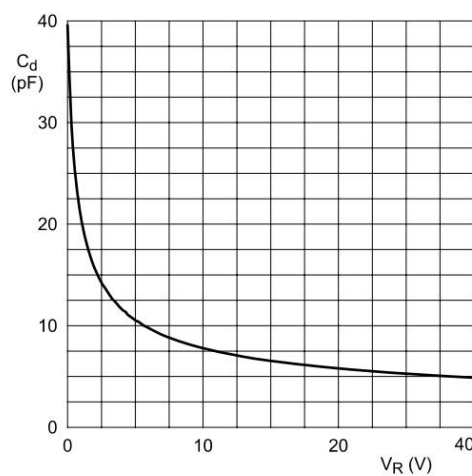


Fig 2. Reverse current as a function of reverse voltage; typical values



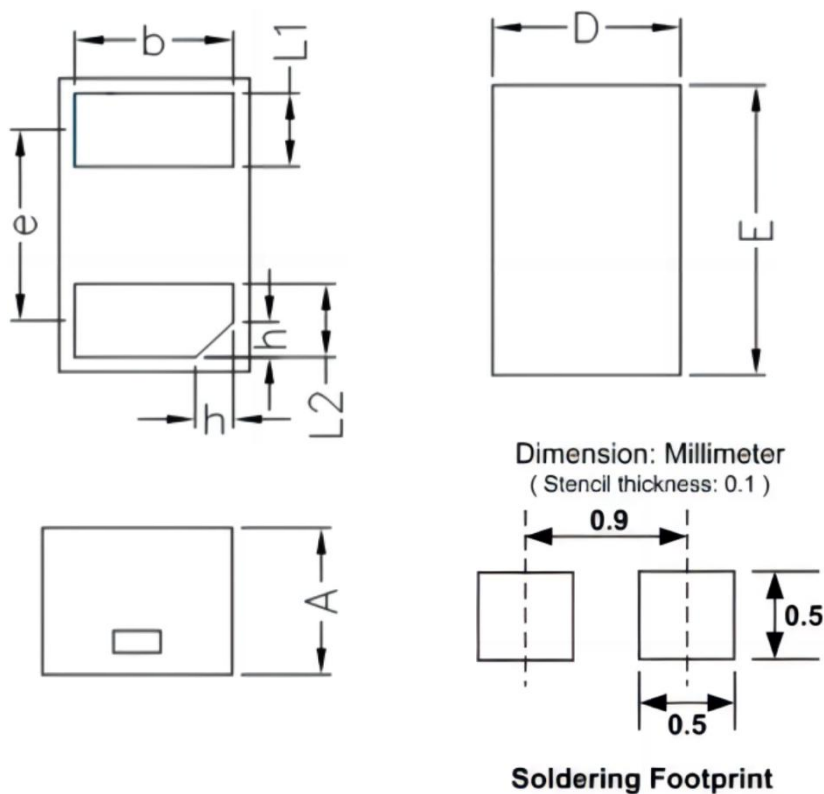
$f = 1$ MHz; $T_{amb} = 25$ °C
Fig 3. Diode capacitance as a function of reverse voltage; typical values



Package Information

DFN1006

Dimensions in mm



Symbol	Dimensions In Millimeters		
	Min	Nom	Max
D	0.55	0.60	0.65
E	0.95	1.00	1.05
L1	0.20	0.25	0.30
L2	0.20	0.25	0.30
b	0.45	0.50	0.55
e	0.65 BSC		
A	0.45	0.50	0.55
h	0.07	0.12	0.17



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