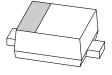




Low VF Schottky barrier rectifier

Features

- ■Forward current: I_F ≤1 A
- ■Reverse voltage V_R ≥40 V
- Very low forward voltage
- ■Ultra small and flat lead SMD plastic package



SOD-523 Marking; KX

Application

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



Symbol

Electrical Characteristic Ta=25 °C

Parameter	Cumbal		Lloit			
Parameter	Symbol	Min.	Тур.	Max.	Unit	
Max. Repetitive Peak Reverse \ @0.5mA	VRRM	40	50		V	
Max. Average Forward Rectified	I F(AV)			1	Α	
Forward Voltage Drop @IF=1A	@25℃	VF		0.55	0.68	V
Max. Reverse Current at VRRM @40V	@25℃	lR		25	100	μΑ
Operating Temperature Range	TJ	-55		+125	°C	
Storage Temperature Range	Тѕтс	-55		+150	$^{\circ}$	



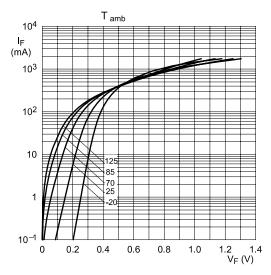


Fig 1. Forward current as a function of forward voltage; typical values

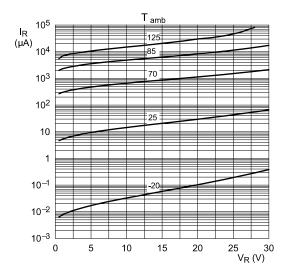
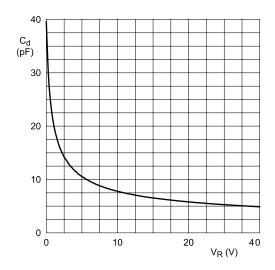


Fig 2. Reverse current as a function of reverse voltage; typical values



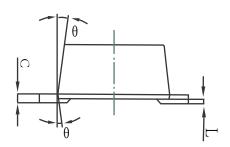
f = 1 MHz; T_{amb} = 25 C

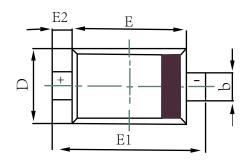
Fig 3. Diode capacitance as a function of reverse voltage; typical values

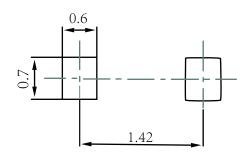


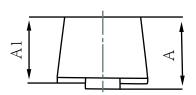
Package Dimensions

SOD-523









	Α										
Max.	0.77	0.70	0.35	0.15	0.85	1.30	1.70	0.20 REF.	0.20	0.07	7°
Min.	0.51	0.50	0.25	0.08	0.75	1.10	1.50		0.01	REF.	

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