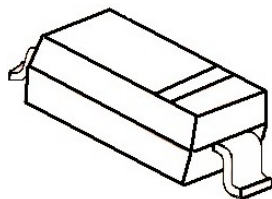


SOD-323

MARKING: D4
特征 Features

- 开关速度小于 3.0uS; Fast Switching Device (TRR <3.0 uS)
- 最大功率耗散 250mW; Power Dissipation of 250mW
- 高稳定性和可靠性。High Stability and High Reliability
- 反向漏电流小。Low reverse leakage

机械数据 Mechanical Data

- 封装: SOD-323 封装 SOD-323 Small Outline Plastic Package
- 极性: 色环端为负极 Polarity: Color band denotes cathode end
- 安装位置: 任意 Mounting Position: Any

极限值和温度特性(TA = 25℃ 除非另有规定)

Maximum Ratings & Thermal Characteristics (Ratings at 25℃ ambient temperature unless otherwise specified.)

参数 Parameters	符号 Symbol	数值 Value	单位 Unit
反向电压 Reverse Voltage	V _R	75	V
反向峰值电压 Peak Repetitive Reverse Voltage	V _{RRM}	85	V
功率消耗 Power Dissipation	P _d	250	mW
工作结温 Operating junction temperature	T _j	150	℃
存储温度 Storage temperature range	T _s	-55-+150	℃
热阻抗 Thermal Resistance from Junction to Ambient	R _{θJA}	450	℃/W
平均整流电流 Average Rectified Current	I _o	200	mA
正向(不重复)浪涌电流 Non repetitive Peak Forward Surge Current @ tp=1us; TA=25℃ @ tp=1ms; TA=25℃ @ tp=1s; TA=25℃	I _{FSM}	4.0 1 0.5	A

Valid provided that electrodes are kept at ambient temperature.

电特性 Electrical Characteristics (Ratings at 25℃ ambient temperature unless otherwise specified).

符号 Symbols	参数 Parameter	测试条件 Test Condition	界限 Limits			单位 Unit
			Min.	TYP.	Max.	
V(BR)	反向电压 Reverse Voltage	IR=100uA	100			V
IR	反向漏电流 Reverse Leakage Current	VR=75V	---	---	5	nA
		VR=75V; Tj=150℃	---	---	80	nA
VF	正向电压 Forward Voltage	IF=1.0mA	---	---	0.9	V
		IF=10mA	---	---	1	
		IF=50mA	---	---	1.10	
		IF=150mA	---	---	1.25	
TRR	反向恢复时间 Reverse Recovery Time	IF= IR=10mA	---	0.8	3	uS
		RL=100Ω				
		IRR=0.1 X IR				
CT	结电容 Capacitance	VR=0V, f=1MHZ	---	2	---	pF

Typical Characteristics

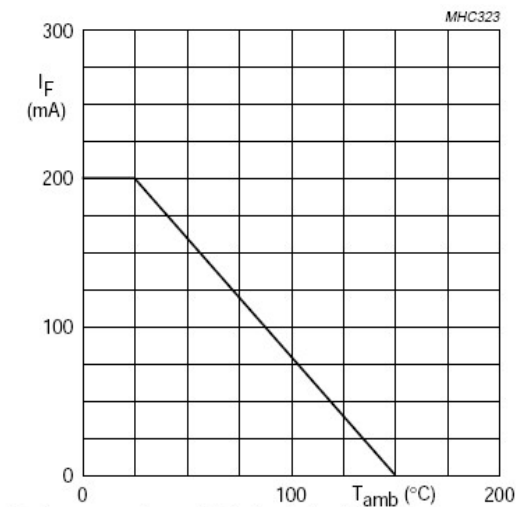
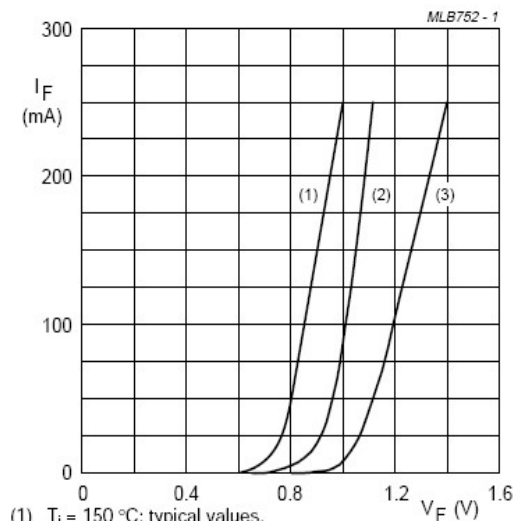


Fig.2 Maximum permissible continuous forward current as a function of ambient temperature.

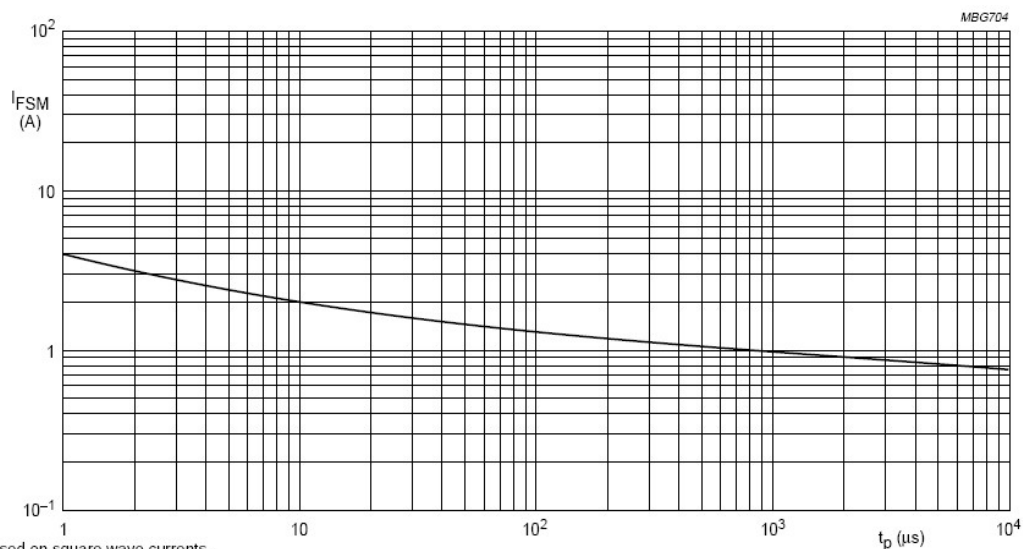


(1) $T_j = 150\text{ }^{\circ}\text{C}$; typical values.

(2) $T_j = 25\text{ }^{\circ}\text{C}$; typical values.

(3) $T_j = 25\text{ }^{\circ}\text{C}$; maximum values.

Fig.3 Forward current as a function of forward voltage.



Based on square wave currents.

$T_j = 25\text{ }^{\circ}\text{C}$ prior to surge. **Fig.4** Maximum permissible non-repetitive peak forward current as a function of pulse duration.

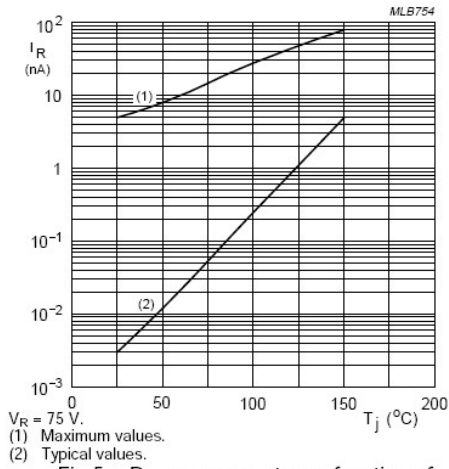


Fig.5 Reverse current as a function of junction temperature.

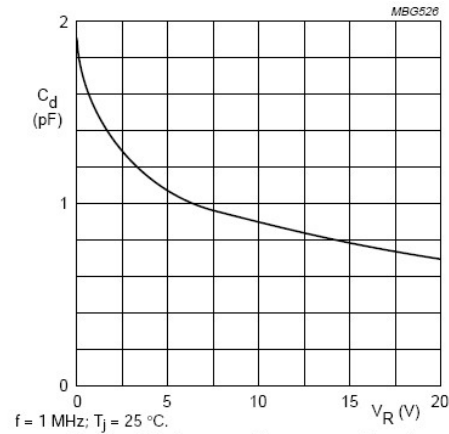
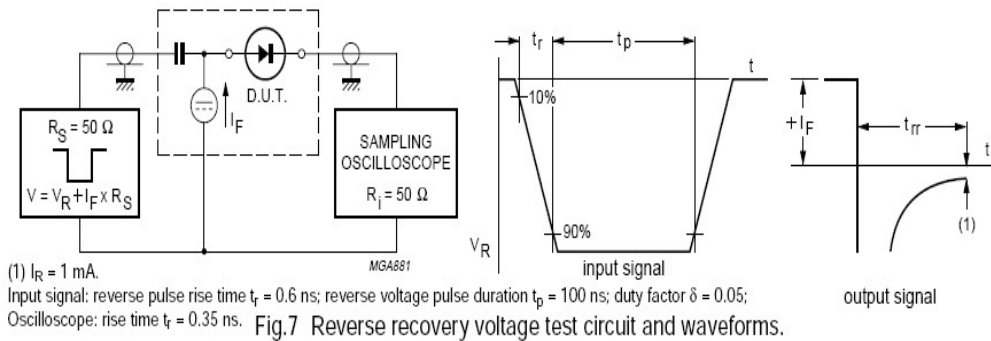


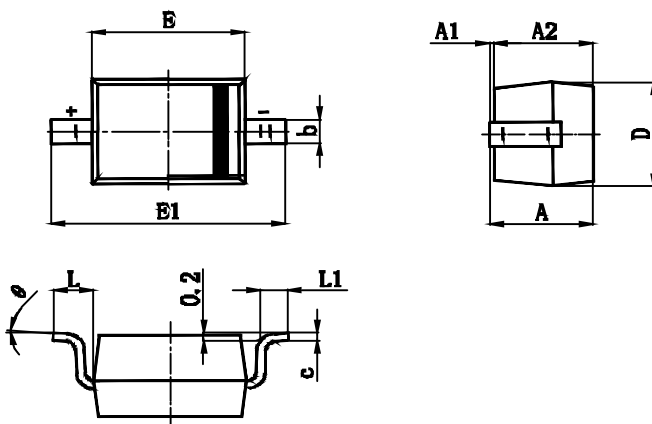
Fig.6 Diode capacitance as a function of reverse voltage; typical values.



SOD-323 PACKAGE OUTLINE

Plastic surface mounted package

SOD-323



Symbol	Min.(mm)	Max.(mm)
A		1.000
A1	0.000	0.100
A2	0.800	0.900
b	0.250	0.350
c	0.080	0.150
D	1.200	1.400
E	1.600	1.800
E1	2.500	2.700
L	0.475REF	
L1	0.250	0.400
θ	0°	8°

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