

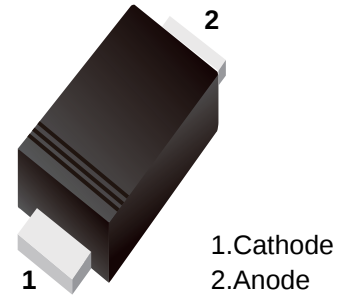
■ Schottky Barrier Diode

■ FEATURES

- Low forward voltage drop.
- Guard ring construction for transient protection.
- Low reverse recovery time.
- Low reverse capacitance.

■ APPLICATIONS

- Schottky barrier application.



■ Simplified outline(SOD-523)

Top View 

■ Marking

Marking	S4
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MAXIMUM RATING @ Ta=25°C unless otherwise specified

Parameter	Symbol	Limits	Unit
DC Reverse voltage	V_R	40	V
Continuous forward current	I_F	350	mA
Repetitive peak forward current @t≤1.0s	I_{FRM}	1	A
Total power dissipation	P_{tot}	400	mW
Total resistance junction to ambient	$R_{\theta JA}$	300	°C/W
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	-65-125	°C

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse breakdown voltage	$V_{(BR)R}$	40			V	$I_R=100\mu A$
Forward voltage	V_F			0.37 0.60	V	$I_F=20mA$ $I_F=200mA$
Reverse current	I_R			5.0	μA	$V_R=30V$
Diode capacitance	C_d		50		pF	$V_R=0V, f=1MHz$
Reverse recovery time	t_{rr}		10		ns	$I_F=I_R=50mA, R_L=100\Omega$

■ TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

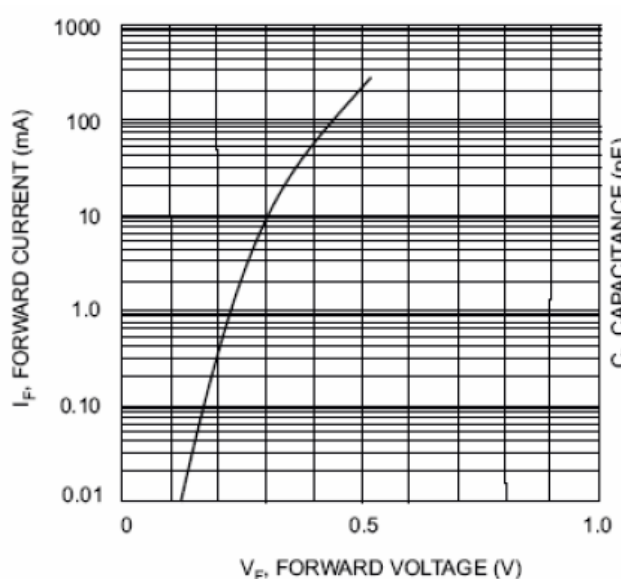


Fig. 1 Typical Forward Characteristics

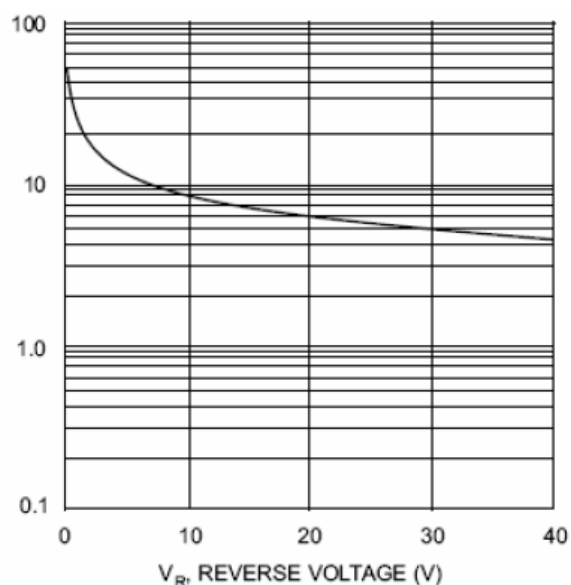
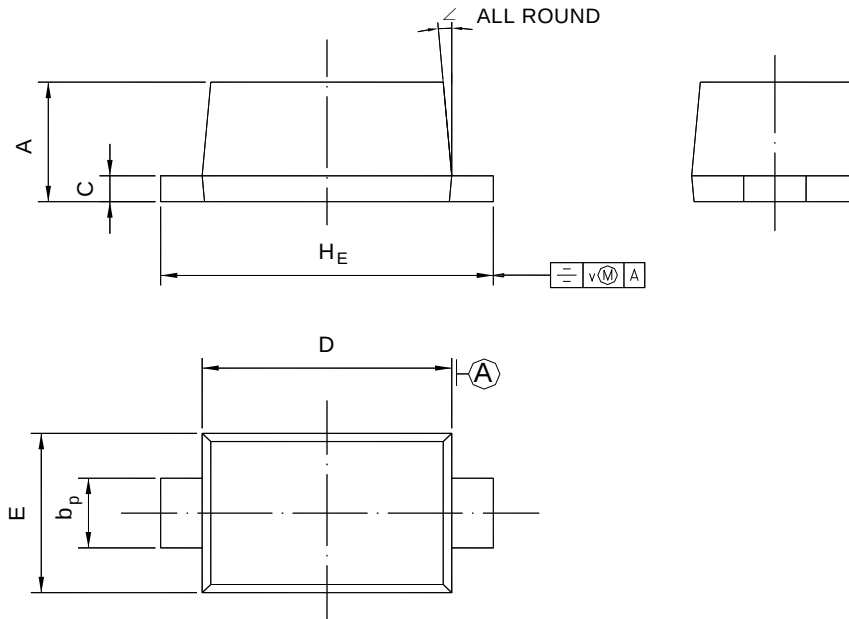


Fig. 2 Typ. Junction Capacitance vs Reverse Voltage

Package Outline SOD-523

Plastic surface mounted package; 2 leads



UNIT	A	b _p	C	D	E	H _E	V	∠
mm	0.70 0.60	0.4 0.3	0.135 0.100	1.25 1.15	0.85 0.75	1.7 1.5	0.1	5°

Summary of Packing Options

Package	Packing Description	Packing Quantity	Industry Standard
SOD-523	Tape/Reel, 7" reel	3000	EIA-481-1