

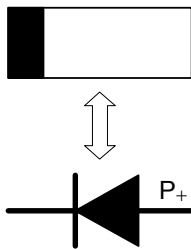
SMD Schottky Barrier Diode

■ Features

$$I_O = 500\text{mA}$$

$$V_R = 20\text{V}$$

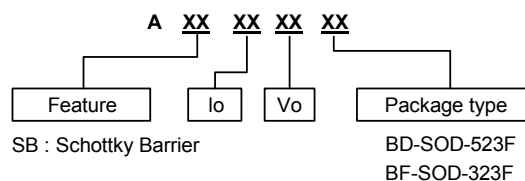
- Low forward voltage
- Designed for mounting on small surface.
- Extremely thin package.
- Majority carrier conduction.
- Lead-free device



■ Mechanical Data

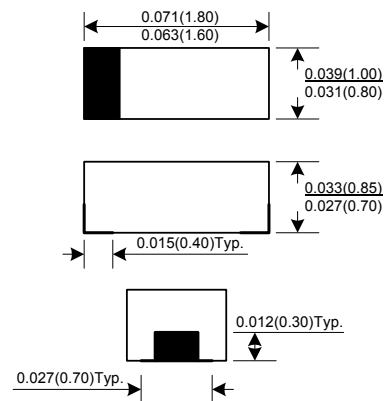
- Case : SOD-523F(1608) SOD-323F(2512)
standard package, molded plastic.
- Terminals : Gold plated, solderable per
MIL-STD-750, method 2026.
- Polarity : Indicated by cathode band.
- Mounting position : Any.
- Weight : BD:0.003gram (approximately)
BF:0.006gram (approximately)

■ Ordering information



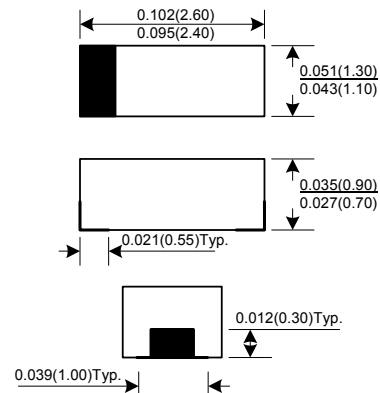
■ General Description

SOD-523F(1608)



Dimensions in inches and (millimeter)

SOD-323F(2512)



Dimensions in inches and (millimeter)



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■ Maximum Rating (at $T_A=25^\circ\text{C}$ unless otherwise noted)

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
V_{RRM}	Repetitive peak reverse voltage		-	-	30	V
V_R	Reverse voltage		-	-	20	V
I_O	Average forward rectified current		-	-	500	mA
I_{FSM}	Forward current, surge peak	8.3ms single half sine-wave superimposed on rate load (JEDEC method)	-	-	2	A
T_{STG}	Storage temperature		-40	-	+125	$^\circ\text{C}$
T_j	Junction temperature		-40	-	+125	$^\circ\text{C}$

■ Electrical Characteristics (at $T_A=25^\circ\text{C}$ unless otherwise noted)

Symbol	Parameter	Conditions	Min.	Typ.	Max.	Unit
V_F	Forward voltage	$I_F=100\text{mA}$	-	-	0.36	V
		$I_F=500\text{mA}$	-	-	0.47	
I_R	Reverse current	$V_R=20\text{V}$	-	-	100	μA
C_T	Capacitance between terminals	$f=1\text{MHz}$, and 0 VDC reverse voltage	-	100	-	pF

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■ Rating And Characteristic Curves

Fig. 1 – Forward characteristics

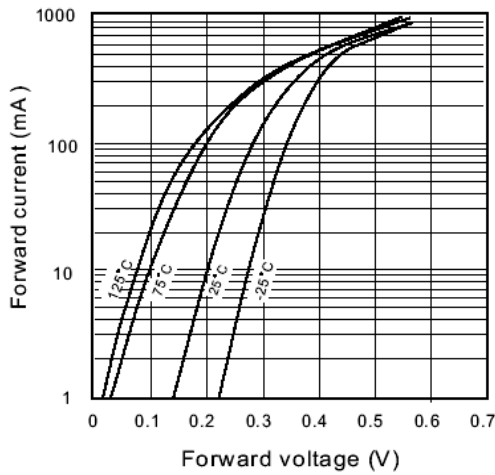


Fig. 2 – Reverse characteristics

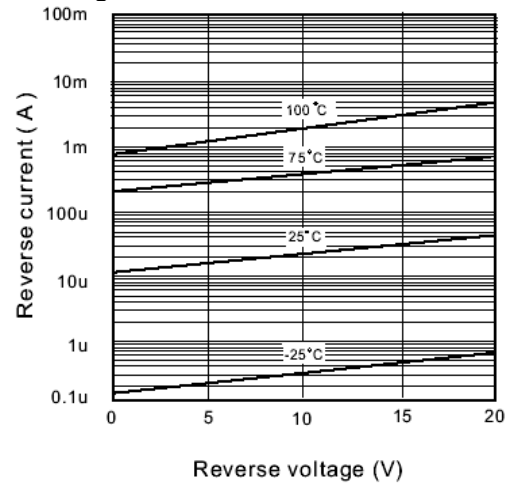


Fig. 3 – Capacitance between terminals characteristics

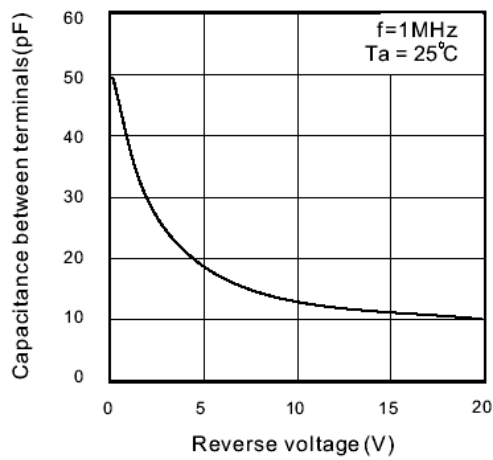
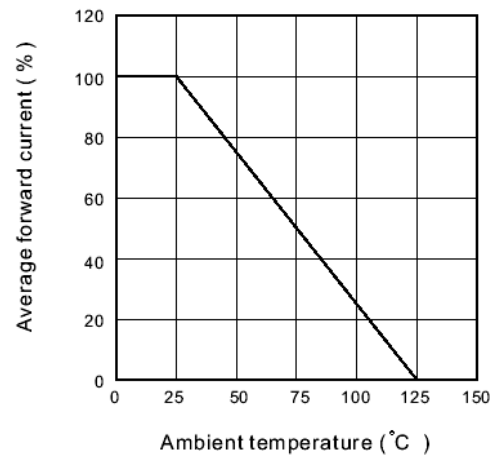


Fig. 4 – Current derating curve



■ Marking Information

