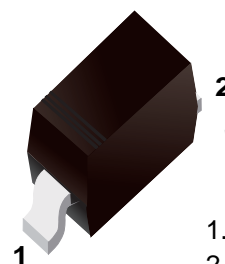


Schottky Diodes

■ Features

- Very Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- High Conductance



1.Cathode
2.Anode

■ Simplified outline(SOD-323)

Top View 

■ Absolute Maximum Ratings (T_A = 25°C unless otherwise noted)

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitance load, derate current by 20%.

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	30	V
Working Peak Reverse Voltage	V _{RWM}		
DC Blocking Voltage	V _R		
RMS Reverse Voltage	V _{R(RMS)}	21	
Average Rectified Output Current	I _O	1	A
Forward Current t = 8.3 ms Half Sinewave	I _{FSM}	5.5	
Power Dissipation	P _D	235	mW
Thermal Resistance Junction to Ambient (Note 1)	R _{θJA}	426	°C/W
Junction Temperature	T _J	150	°C
Storage Temperature range	T _{stg}	-55 to 150	

Note 1: Part mounted on FR-4 PC board with recommended pad layout

■ Electrical Characteristics (T_A = 25°C unless otherwise noted)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse breakdown voltage (Note 2)	V _R	I _R = 500 μA	30			V
Forward voltage	V _{F1}	I _F = 10 mA			0.27	
	V _{F2}	I _F = 100 mA			0.35	
	V _{F3}	I _F = 1 A			0.55	
Leakage current (Note 2)	I _{R1}	V _R =5 V			10	μA
	I _{R2}	V _R =8 V			20	
	I _{R3}	V _R =15 V			50	
Total Capacitance	C _T	V _R = 5 V, f= 1 MHz		25		pF

Note 2: Short duration pulse test used to minimize self-heating effect.

■ Typical Characteristics

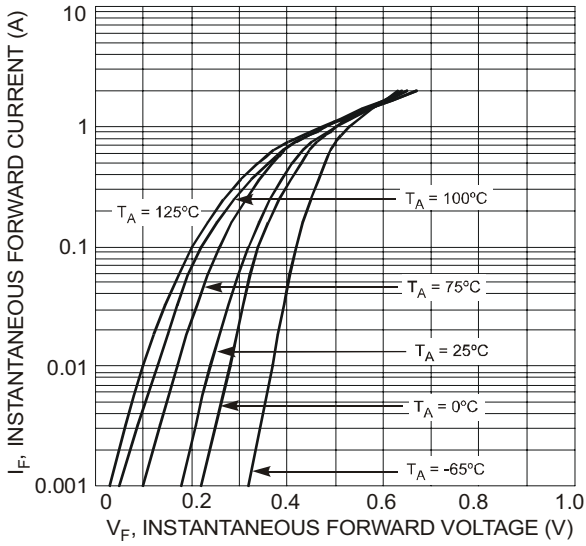


Fig. 1 Typical Forward Characteristics

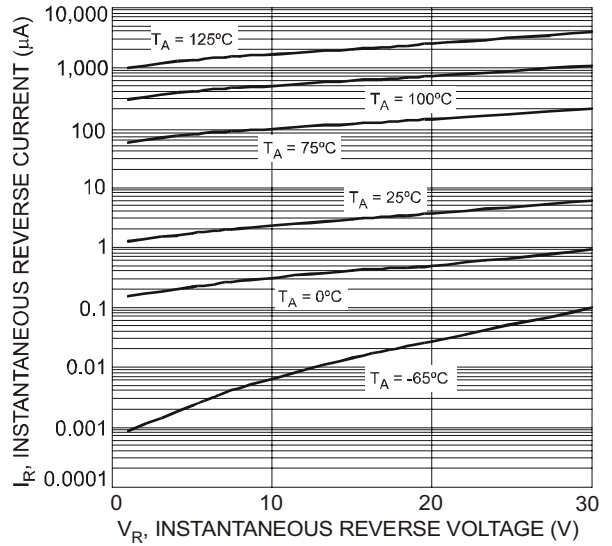


Fig. 2 Typical Reverse Characteristics

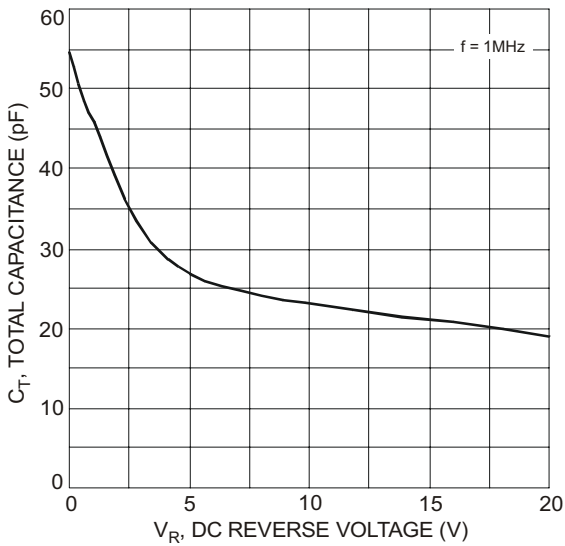


Fig. 3 Total Capacitance vs. Reverse Voltage

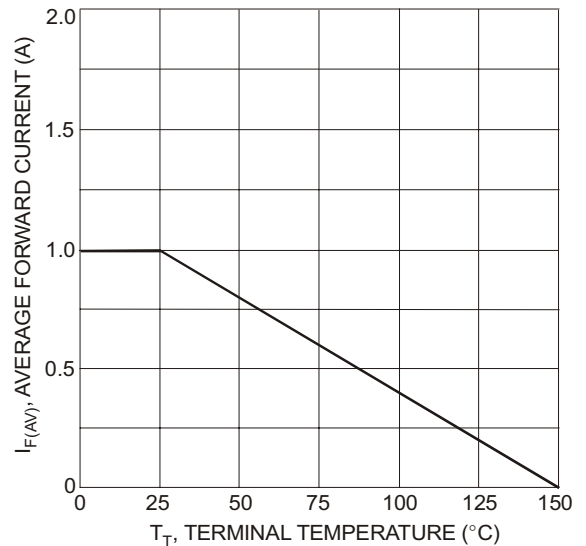
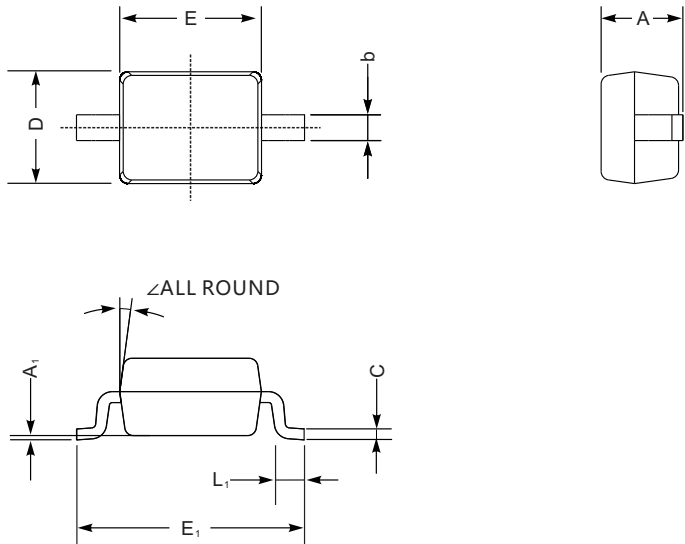


Fig. 4 Forward Current Derating Curve

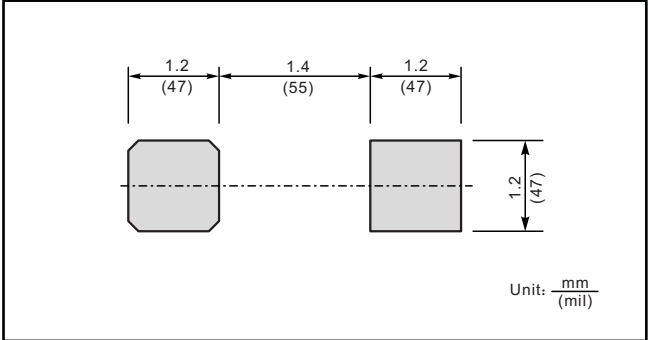
■ SOD-323



SOD-323 mechanical data

UNIT		A	C	D	E	E ₁	b	L ₁	A ₁	∠
mm	max	1.1	0.15	1.4	1.8	2.75	0.4	0.45	0.2	9°
	min	0.8	0.08	1.2	1.4	2.55	0.25	0.2	—	
mil	max	43	5.9	55	70	108	16	16	8	
	min	32	3.1	47	63	100	9.8	7.9	—	

■ The recommended mounting pad size



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