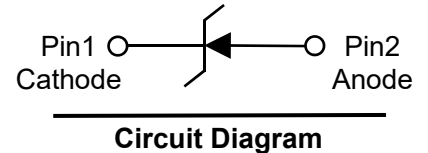
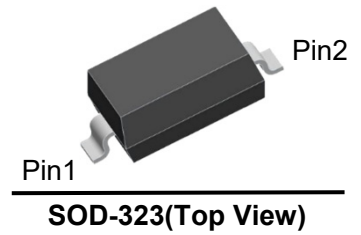


Feature

- Metal silicon junction, majority carrier conduction
- For surface mounted applications
- Low power loss, high efficiency
- High forward surge current capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications


Mechanical Characteristics

- Case: SOD-323
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 5.48mg / 0.00019oz

Absolute maximum rating@25°C

Rating	Symbol	Value	Units
Peak Repetitive Reverse Voltage	V_{RRM}	40	V
RMS Voltage	V_{RMS}	28	V
DC Blocking Voltage	V_{DC}	40	V
Average Forward Rectified Current	$I_{F(AV)}$	1.0	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load(JEDEC method)	I_{FSM}	30	A
Peak Forward Surge Current 1.0 ms Single Half Sine Wave Superimposed on Rated Load(JEDEC method)		60	
I^2t Rating for fusing ($3ms \leq t \leq 8.3ms$)	I^2t	3.7	A ² S
Forward Voltage@ $I_F = 1A$	V_F	0.55	V
DC Reverse Current at Rated DC Blocking Voltage	I_R	$T_a=25^\circ C$	0.3
		$T_a=100^\circ C$	10
Typical Junction Capacitance @ $V_R=4V, f=1MHz$	C_J	55	pF
Typical Thermal Resistance ¹⁾	$R_{\theta JA}$	150	°C/W
	$R_{\theta JC}$	50	
	$R_{\theta JL}$	75	
Junction and Storage Temperature Range	T_J, T_{STG}	-55 ~ +150	°C

Notes:

1. P.C.B. mounted with 0.1" X 0.1" (2.54 X 2.54 mm) copper pad areas.

Typical Characteristics

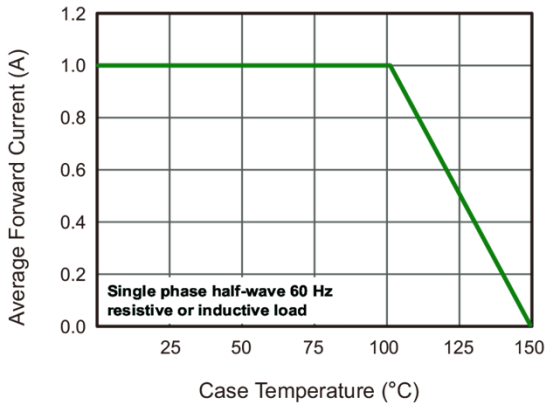


Fig.1 Forward Current Derating Curve

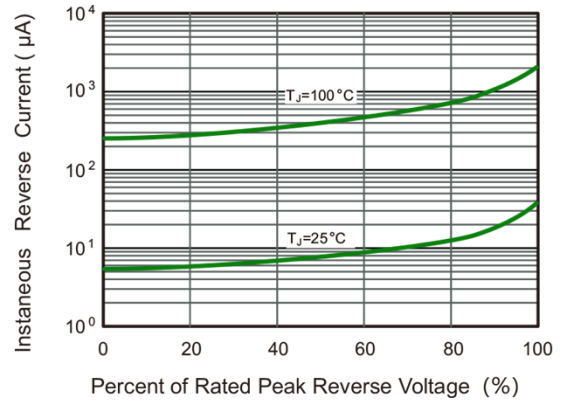


Fig.2 Typical Reverse Characteristics

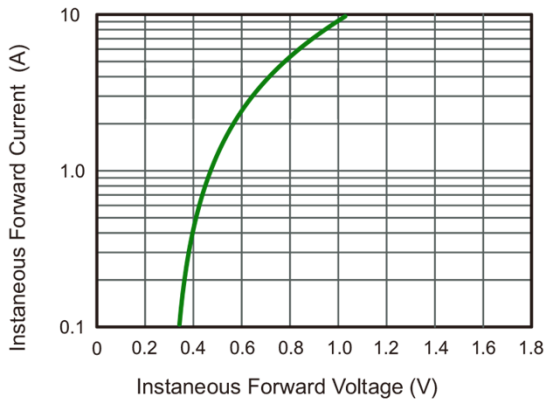


Fig.3 Typical Forward Characteristic

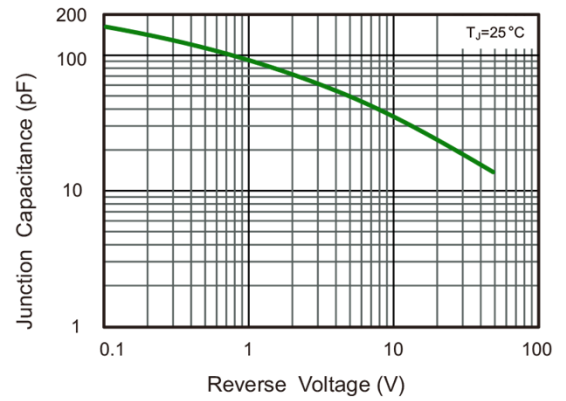


Fig.4 Typical Junction Capacitance

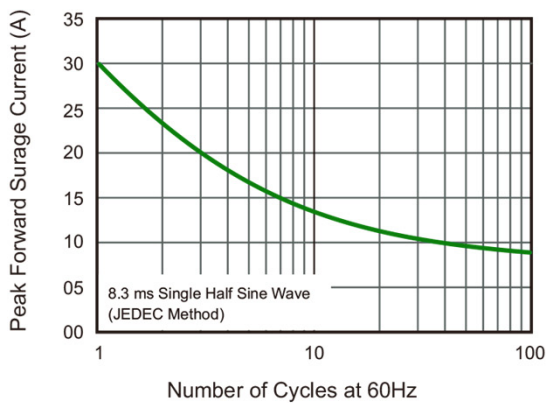
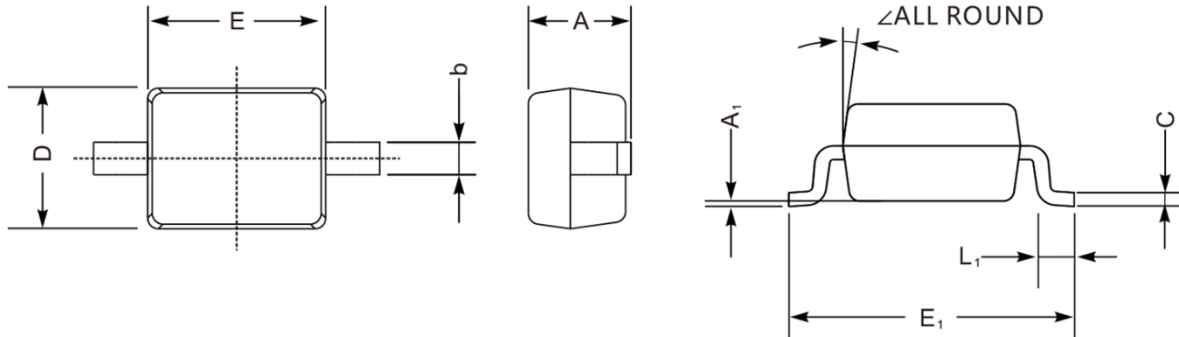


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

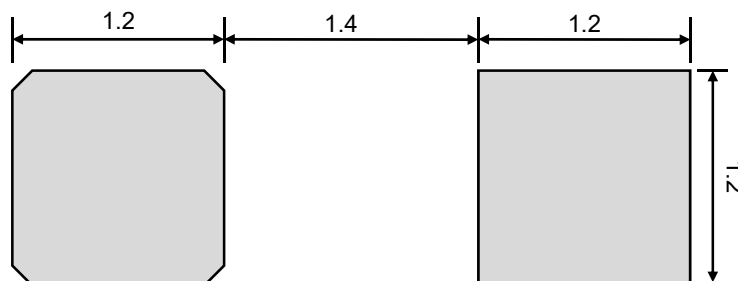
Schottky Barrier Diode

PSBD3D40V1HJ

Product dimension (SOD-323)



Dim	Millimeters		Inches	
	Min	Max	Min	Max
A	0.80	1.10	0.031	0.043
A1	-	0.20	-	0.008
C	0.08	0.15	0.003	0.006
D	1.20	1.40	0.047	0.055
E	1.40	1.80	0.055	0.071
E1	2.55	2.75	0.100	0.108
b	0.25	0.40	0.010	0.016
L1	0.20	0.45	0.008	0.018
∠	9°		9°	



Suggested PCB Layout

Unit: mm

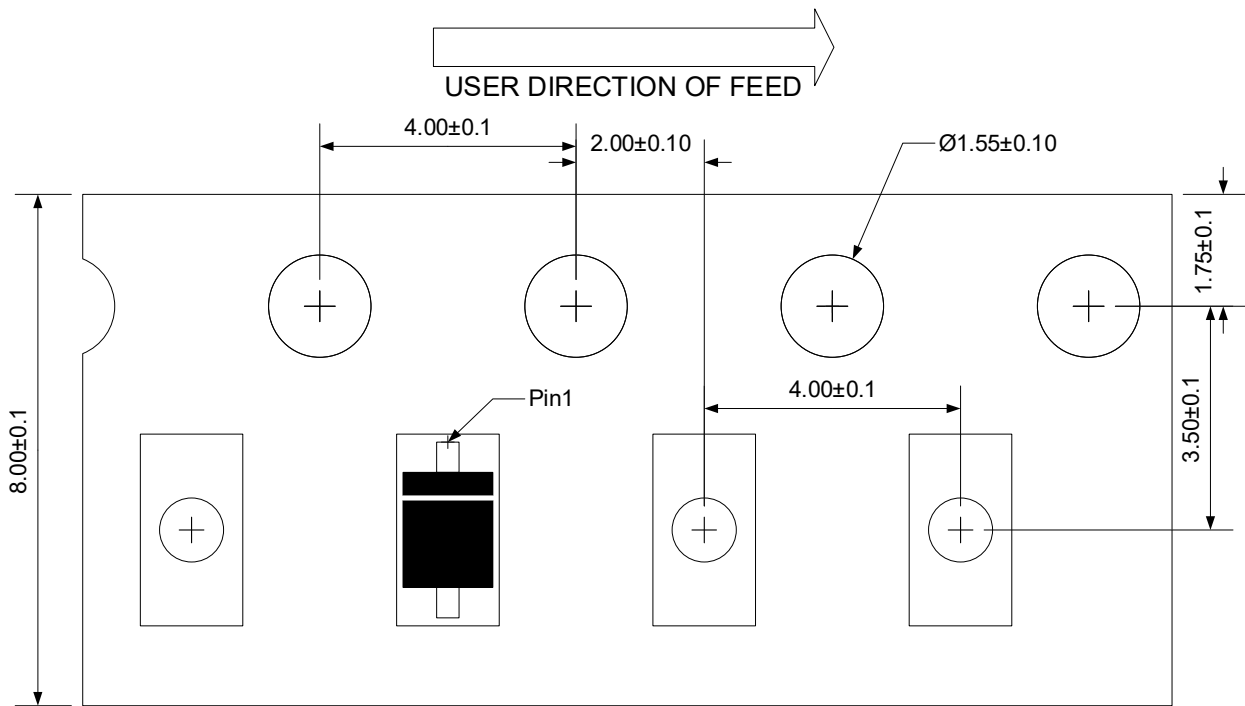
Schottky Barrier Diode

PSBD3D40V1HJ

Ordering information


Device	Package	Reel	Shipping
PESDNC3D18VUL	SOD-323	7"	3000 / Tape & Reel

Load with information



Unit:mm


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