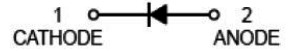


Silicon Epitaxial Planar Diode



Features:

- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- High Conductance



SOD-323

Applications:

Surface mount fast switching diode

Max. Rating @ T_A = 25°C unless otherwise specified

Parameter	Symbol	Limits	Unit
Repetitive peak reverse voltage	V _{RRM}	250	V
Working peak reverse voltage DC reverse voltage	V _{RMS} V _R	200	V
RMS reverse voltage	V _{R(RMS)}	141	V
Forward continuous current	I _{FM}	400	mA
Average rectified output current	I _O	200	mA
Non-Repetitive peak forward surge current @t=1μs @t=1s	I _{FSM}	2.5 0.5	mA
Repetitive peak forward surge current	I _{FRM}	625	mA
Power dissipation	P _D	200	mW
Thermal resistance junction to ambient air	R _{θJA}	625	°C/W
Operating and storage temperature range	T _j , T _{STG}	-65 to +150	°C

Electrical Characteristics @ T_A = 25°C unless otherwise specified

Parameter	Symbol	Conditions	Min.	Max.	Unit
Forward voltage	V _{FM}	I _F = 100mA I _F = 200mA	-	1 1.25	V
Reverse current	I _R	V _R = 150V	-	0.1	μA
Capacitance between terminals	C _T	V _R = 0V, f = 1MHz	-	5	pF
Reverse recovery time	t _{rr}	I _F = I _R = 30mA, I _{rr} = 0.1 × I _R , R _L = 100Ω	-	50	ns

Silicon Epitaxial Planar Diode



Typical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

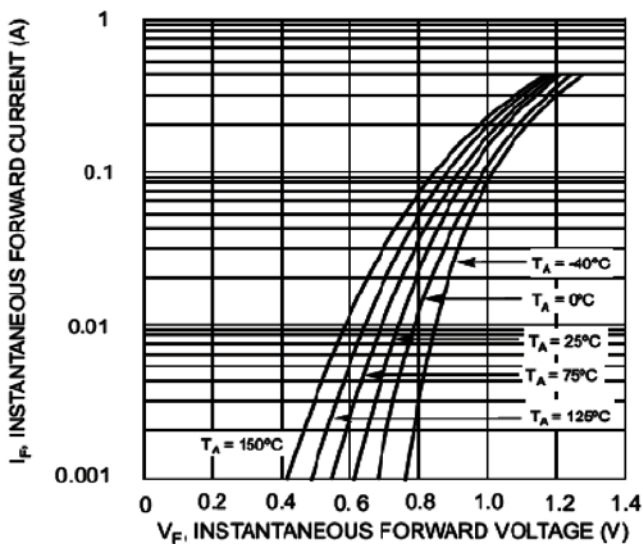


Fig. 1 Typical Forward Characteristics

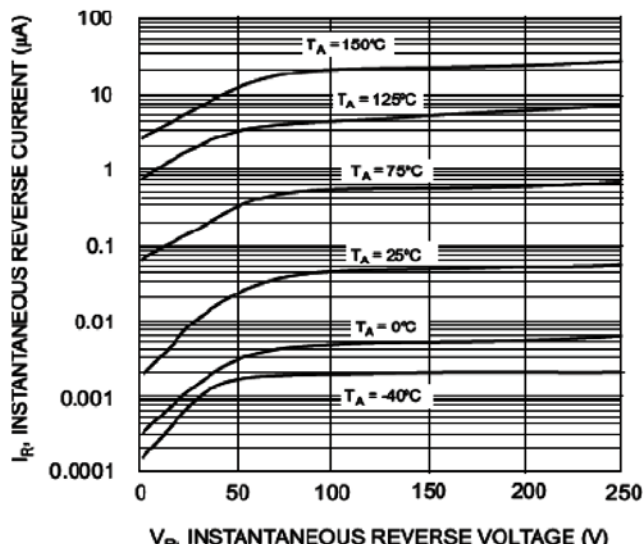


Fig. 2 Typical Reverse Characteristics

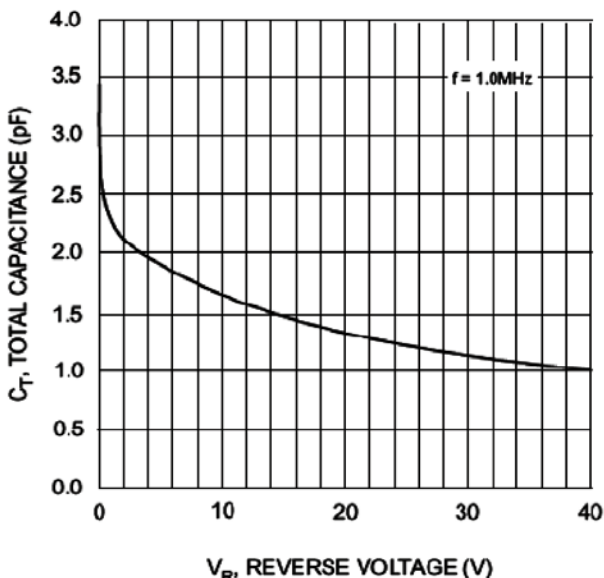


Fig. 3 Typical Capacitance vs. Reverse Voltage

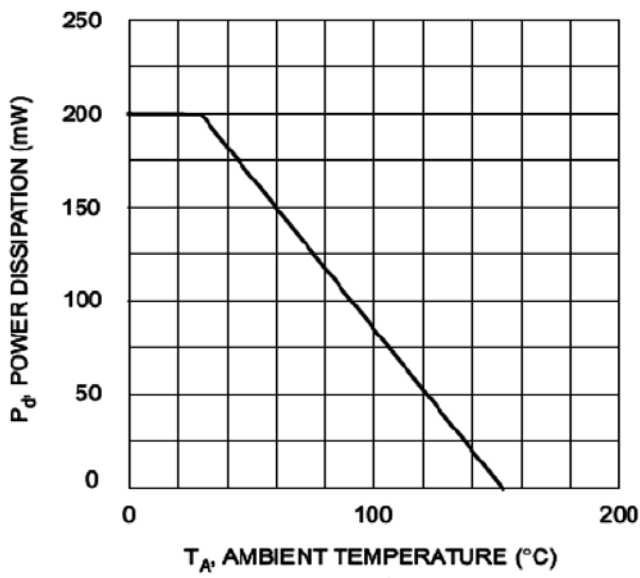


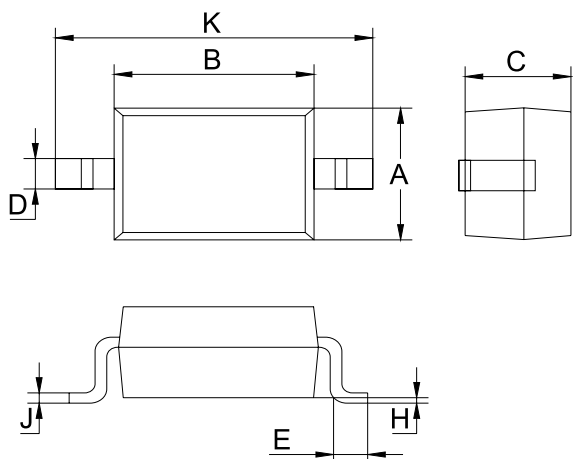
Fig. 4 Power Derating Curve, Total Package



Silicon Epitaxial Planar Diode

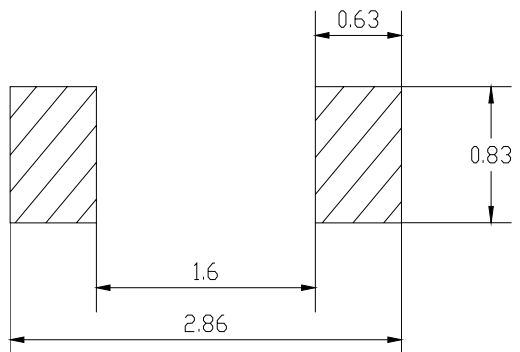


Plastic surface mounted package



SOD-323		
Dim	Min	Max
A	1.275	1.325
B	1.675	1.725
C	0.9 Typical	
D	0.25	0.35
E	0.27	0.37
H	0.02	0.1
J	0.1 Typical	
K	2.6	2.7
All Dimensions in mm		

Soldering Footprint



Unit : mm

Package Information

Device	Package	Shipping
BAV21WS-7-F	SOD-323	3,000 / Tape & Reel

Part Number Table

Description	Part Number
Silicon Epitaxial Planar Diode	BAV21WS-7-F

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