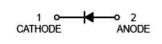
Silicon Epitaxial Planar Diode





Features:

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





Applications:

Surface mount fast switching diode

SOD-323

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

Parameter	Symbol	Limits	Unit
Repetitive peak reverse voltage	VRRM	200	V
Working peak reverse voltage DC reverse voltage	V _{RMS} V _R	150	V
RMS reverse voltage	Vr(RMS)	106	V
Forward continuous current	Iғм	400	mA
Average rectified output current	lo	200	mA
Non-Repetitive peak forward surge current @t=1µs @t=1s	Ігѕм	2.5 0.5	mA
Repetitive peak forward surge current	IFRM	625	mA
Power dissipation	PD	200	mW
Thermal resistance junction to ambient air	Røja	625	°C/W
Operating and storage temperature range	Т _{j,} Тsтg	-65 to +150	°C

Electrical Characteristics @ TA = 25°C unless otherwise specified

Parameter	Symbol	Conditions	Min.	Max.	Unit
Forward voltage	Vғм	IF = 100mA IF = 200mA	-	1 1.25	V
Reverse current	l _R	V _R = 150V	-	0.1	μA
Capacitance between terminals	Ст	V _R = 0V, f = 1MHz	-	5	pF
Reverse recovery time	trr	I _F = I _R = 30mA, I _T = 0.1 × I _R , R _L = 100Ω	-	50	ns

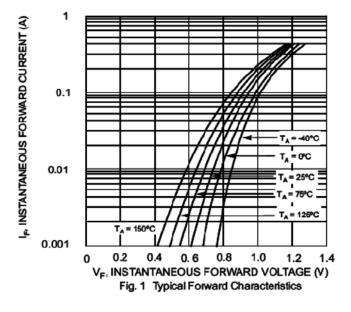
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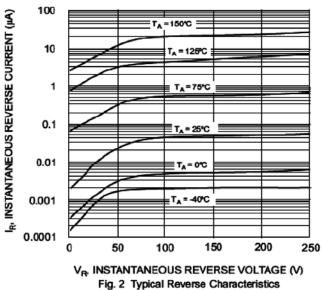


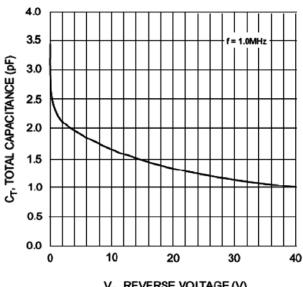
Silicon Epitaxial Planar Diode

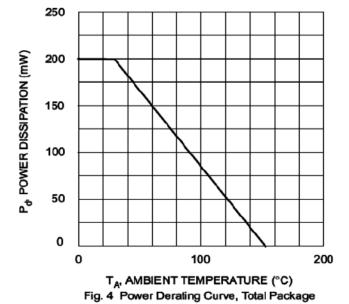


Typical Characteristics @ TA = 25°C unless otherwise specified







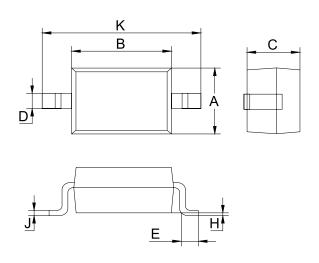


V_R, REVERSE VOLTAGE (V) Fig. 3 Typical Capacitance vs. Reverse Voltage

Silicon Epitaxial Planar Diode

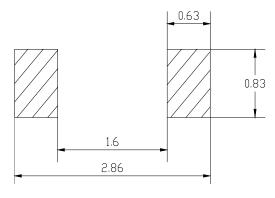


Plastic surface mounted package



SOD-323			
Dim	Min	Max	
A	1.275	1.325	
В	1.675	1.725	
С	0.9 Typical		
D	0.25	0.35	
Е	0.27	0.37	
Н	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
BAV20WS-7-F	SOD-323	3,000 / Tape & Reel

Part Number Table

Description	Part Number	
Silicon Epitaxial Planar Diode	BAV20WS-7-F	

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