



BAV101 thru BAV103

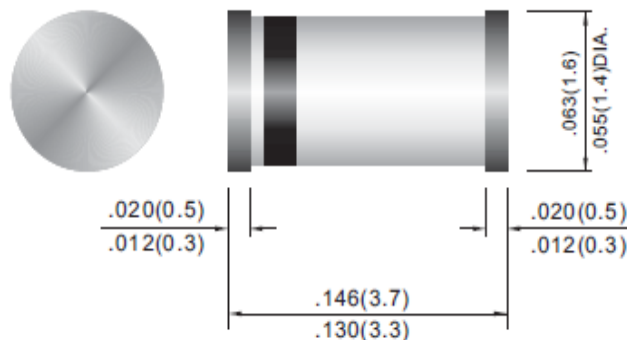
Silicon Epitaxial Planar Diodes

Reverse Voltage 100- 200 Volts
Forward Current - 250 mA

FEATURES

- High Voltage Switching Diodes

LL-34



Dimensions in inches and (millimeters)

Maximum Ratings (TA=25 C Unless otherwise noted)

Characteristic	SYMBOL	BAV101	BAV102	BAV103	UNIT
Repetitive Peak Reverse Voltage	V _{RRM}	120	200	250	V
DC Blocking Voltage	V _R	100	150	200	V
Continuous Forward Current	I _F	250			mA
Repetitive Peak Forward Current	I _{FRM}	625			mA
Non-repetitive Peak Forward Surge Current @tp=1.0s @tp=100us @tp=1us	I _{FSM}	1.0			A
		3.0			
		9.0			
Total Power Dissipation	P _{tot}	400			mW
Junction Temperature	T _J	175			°C
Storage Temperature Range	T _{STG}	-65to+175			°C

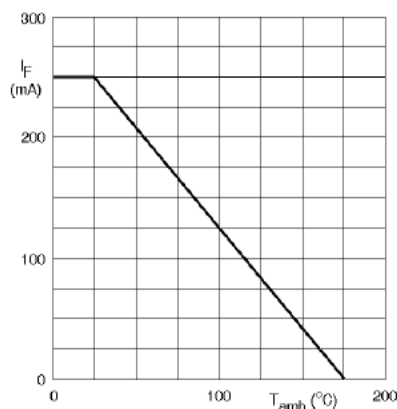
Electrical Characteristics(TA=25 C Unless otherwise noted)

Characteristic	SYMBOL	Min	Typ	Max	UNIT
Forward Voltage @ $I_F=100$ mA	V_F	-	-	1.0	V
@ $I_F=200$ mA		-	-	1.25	
Reverse Current $V_R=100V$	IR	-	-	100	nA
$V_R=150V$		-	-	100	
$V_R=200V$		-	-	100	
$V_R=100V, T_J=150^{\circ}C$		-	-	100	uA
$V_R=150V, T_J=150^{\circ}C$		-	-	100	
$V_R=200V, T_J=150^{\circ}C$		-	-	100	
Diode Capacitance @ $V_R = 0, f = 1$ MHz	C_d	-	-	5	pF
Reverse Recovery Time @ $I_F = I_R = 30$ mA, $I_{rr} = 3$ mA, $R_L = 100 \Omega$	t_{rr}	-	-	50	nS

Note: 1.Valid Provided that device Terminals are Kept at Ambient Temperature.

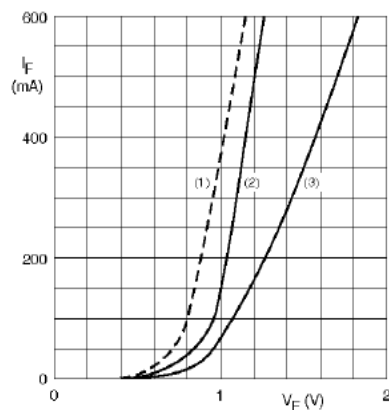
2..The typical data above is for reference only(典型值仅供参考).

BAV1*-7-99-00
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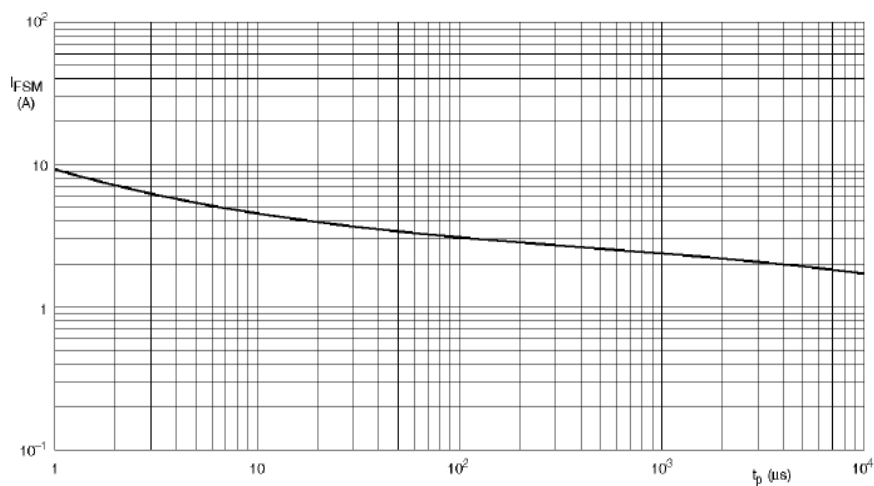
Device mounted on an FR4 printed-circuit board.

Maximum permissible continuous forward current as a function of ambient temperature.



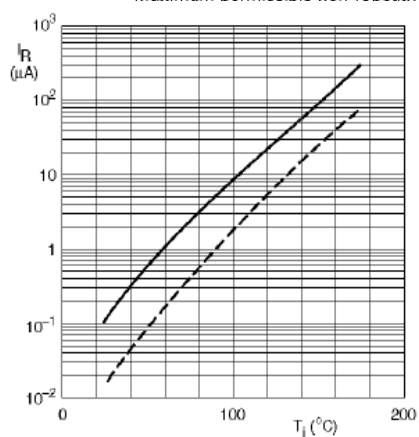
- (1) $T_J = 150^\circ\text{C}$; typical values.
- (2) $T_J = 25^\circ\text{C}$; typical values.
- (3) $T_J = 25^\circ\text{C}$; maximum values.

Forward current as a function of forward voltage.



Based on square wave currents.
 $T_J = 25^\circ\text{C}$ prior to surge.

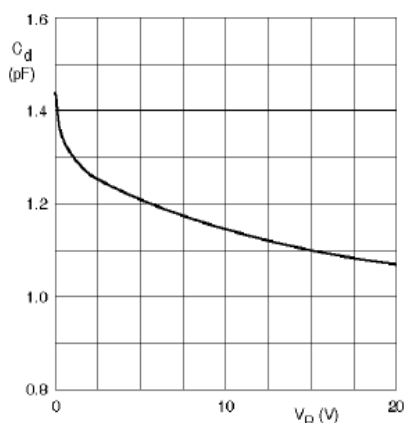
Maximum permissible non-repetitive peak forward current as a function of pulse duration.



$V_R = V_{Rmax}$.

Solid line; maximum values.
Dotted line; typical values.

Reverse current as a function of junction temperature.



$f = 1\text{ MHz}$; $T_J = 25^\circ\text{C}$.

Diode capacitance as a function of reverse voltage; typical values.

The curve above is for reference only.



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