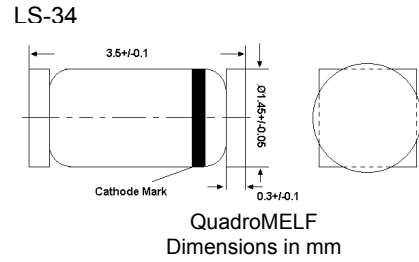


BAV201...BAV203

Silicon Epitaxial Planar Diodes

High Voltage Switching Diode

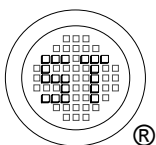


Absolute Maximum Ratings ($T_a = 25\text{ }^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	BAV201	120	V
	BAV202	200	
	BAV203	250	
Reverse Voltage	BAV201	100	V
	BAV202	150	
	BAV203	200	
Forward Current	I_F	250	mA
Forward Peak Current (at $f = 50\text{ Hz}$)	I_{FM}	625	mA
Non-repetitive Peak Forward Surge Current at $t = 1\text{ s}$	I_{FSM}	1	A
Junction Temperature	T_j	175	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 65 to + 175	$^\circ\text{C}$

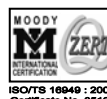
Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Min.	Typ.	Max.	Unit
Forward Voltage at $I_F = 100\text{ mA}$	V_F	-	-	1	V
Reverse Current at $V_R = 100\text{ V}$ at $V_R = 150\text{ V}$ at $V_R = 200\text{ V}$	BAV201 I_R	-	-	100	nA
	BAV202	-	-	100	nA
	BAV203	-	-	100	nA
Breakdown Voltage at $I_R = 100\text{ }\mu\text{A}$	BAV201 $V_{(BR)}$	120	-	-	V
	BAV202	200	-	-	V
	BAV203	250	-	-	V
Capacitance at $V_R = 0, f = 1\text{ MHz}$	C_D	-	1.5	-	pF
Reverse Recovery Time at $I_F = 30\text{ mA}, I_R = 30\text{ mA}, I_R = 3\text{ mA}, R_L = 100\text{ }\Omega$	t_{rr}	-	-	50	ns



SEMTECH ELECTRONICS LTD.

(Subsidiary of Sino-Tech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



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 ISO 14001:2004 Certificate No. 7116
 ISO 9001:2000 Certificate No. 080808
 BS-OHSAS 18001: 2007 Certificate No. 7116
 IECQ QC 080000 Certificate No. 7116

Dated : 15/06/2009

BAV201...BAV203

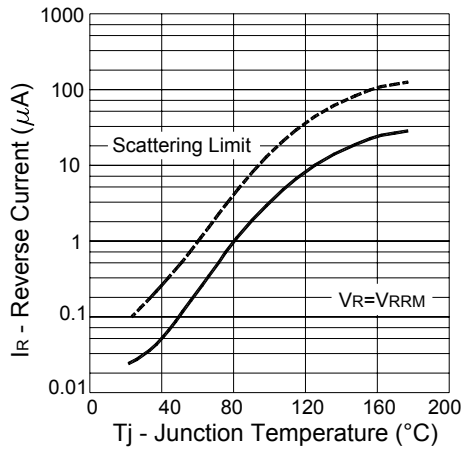


Fig 1. Reverse Current vs. Junction Temperature

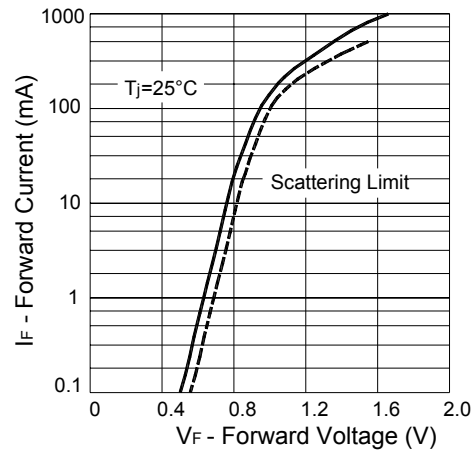
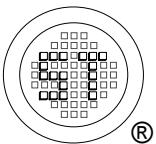
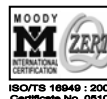


Fig 2. Forward Current vs. Forward Voltage



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