Glass case MiniMELF
Dimensions in mm

LL-34

Absolute Maximum Ratings (T_a = 25℃)

Parameter		Symbol	Value	Unit
Repetitive Peak Reverse Voltage	BAV101	V_{RRM}	120	V
	BAV102		200	
	BAV103		250	
Reverse Voltage	BAV101	V_R	100	V
	BAV102		150	
	BAV103		200	
Continuous Forward Current		I_F	250	mA
Repetitive Peak Forward Current		I_{FRM}	625	mA
Non-repetitive Peak Forward Surge Current	at t = 1 s	I_{FSM}	1	A
	at t = 100 µs		3	
	at t = 1 µs		9	
Total Power Dissipation		P_{tot}	400	mW
Junction Temperature		T_j	175	℃
Storage Temperature Range		T_{stg}	- 65 to + 175	℃

Thermal Characteristics

Parameter	Symbol	Max.	Unit
Thermal Resistance Junction to Ambient [1]	$R_{\theta JA}$	375	℃/W

[1] Valid provided that electrodes are kept at ambient temperature.

Characteristics at T$_a$ = 25℃

Parameter		Symbol	Max.	Unit
Forward Voltage at I$_F$ = 100 mA at I$_F$ = 200 mA		V$_F$	1 1.25	V
Reverse Current at V$_R$ = 100 V at V$_R$ = 150 V at V$_R$ = 200 V at V$_R$ = 100 V, T$_j$ = 150 ℃ at V$_R$ = 150 V, T$_j$ = 150 ℃ at V$_R$ = 200 V, T$_j$ = 150 ℃	BAV101 BAV102 BAV103 BAV101 BAV102 BAV103	I$_R$	100 100 100 100 100 100	nA nA nA μA μA μA
Diode Capacitance at V$_R$ = 0, f = 1 MHz		C$_d$	5	pF
Reverse Recovery Time at I$_F$ = I$_R$ = 30 mA, I$_{rr}$ = 3 mA, R$_L$ = 100 Ω		t$_{rr}$	50	ns

Electrical Characteristics Curves
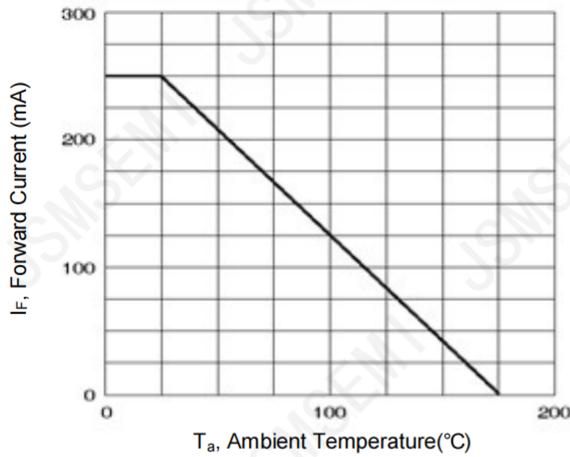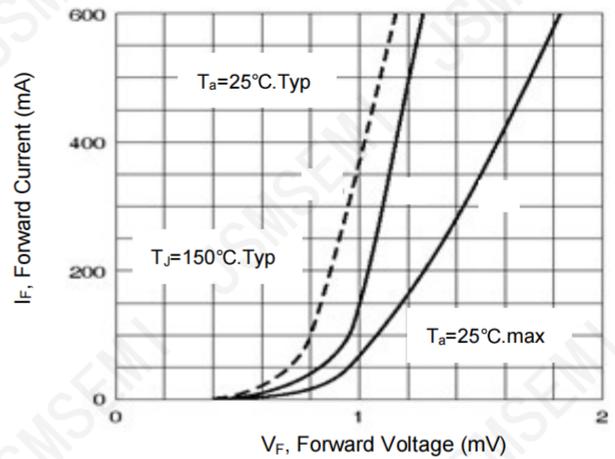
Fig 1. Derating Curve
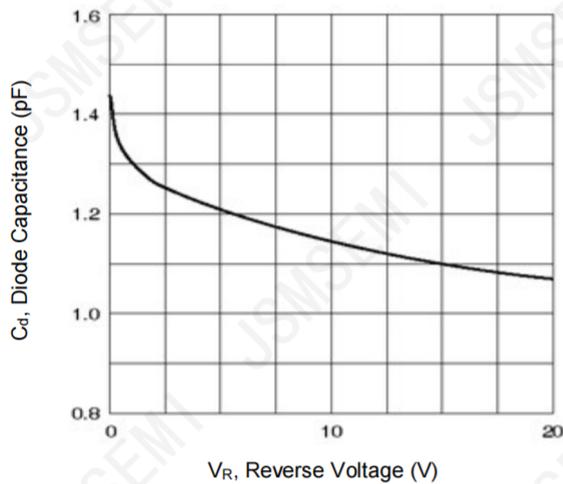

Fig 2. Forward Characteristics
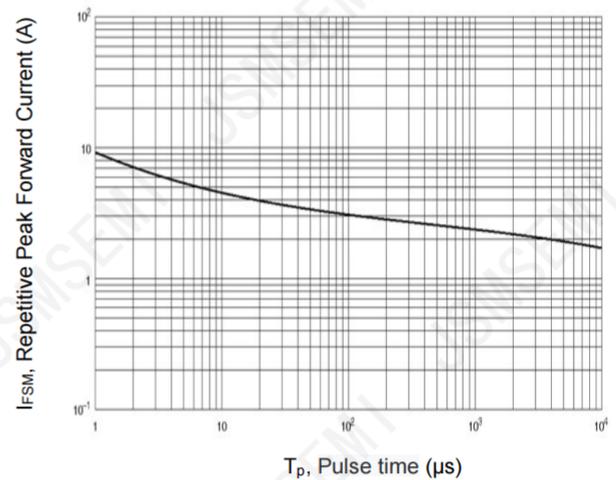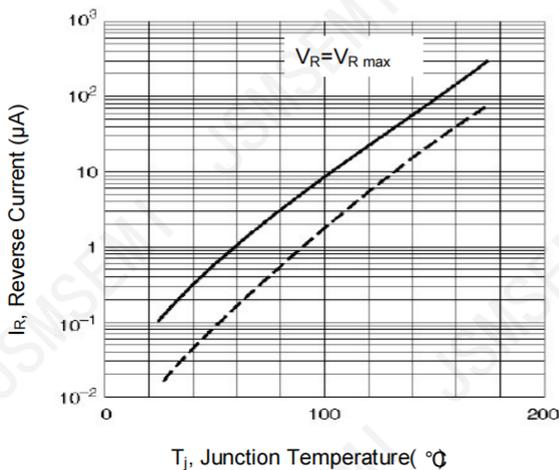

Fig 3. C_d vs. V_R

Fig 4. I_{FSM} vs. T_p

Fig 5. Reverse Characteristics

Revision History

Rev.	Change	Date
V1.0	Initial version	2/23/2024

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