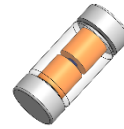


200mA,30V Schottky Diodes

Features

- Low leakage current
- Schottky barrier diodes
- Low forward voltage drop
- For general purpose applications
- Moisture sensitivity: level 1, per J-STD-020
- For fast switching and low logic level applications
- High temperature soldering guaranteed: 260°C/10 seconds



LL-34(MINI MELF)

Applications

- HF-Detector, Protection circuit
- DC/DC converter for notebooks
- Small battery charger, Power supplies

Maximum Ratings & Electrical Characteristics (T _A =25°C unless otherwise noted)			
Parameter	Symbol	BAS85	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	30	V
Forward continuous current	I _F	200	mA
Repetitive peak forward current at tp<1s, δ<0.5	I _{FRM}	300	mA
Power dissipation (infinite heatsink)	P _{tot}	200	mW
Surge forward current at tp<1s	I _{FSM}	600	mA
Maximum junction temperature	T _J	125	°C
Storage temperature range	T _{STG}	-65 to +150	°C

Thermal-Mechanical Specifications (T _A =25°C unless otherwise noted)			
Parameter	Symbol	Typ	Unit
Thermal Resistance, Junction to Ambient	R _{θJA}	300	°C /W

Electrical Specifications (T_A=25°C unless otherwise noted)

Parameter	Symbol	Test Conditions	Typ	Max	Unit
Maximum forward voltage pulse test tp<300us, δ<2%	V _F	I _F =0.1mA	-	0.24	V
		I _F =1mA	-	0.32	
		I _F =10mA	-	0.40	
		I _F =30mA	0.50	-	
		I _F =100mA	-	0.80	
Maximum leakage current pulse test tp<300us, δ<2%	I _R	V _R =25	0.2	2	uA
Maximum junction capacitance	C _{tot}	1 V 1 MHz	10		pF
Maximum reverse recovery time	t _{rr}	I _F =I _R =10mA to I _R =1mA	5		nS

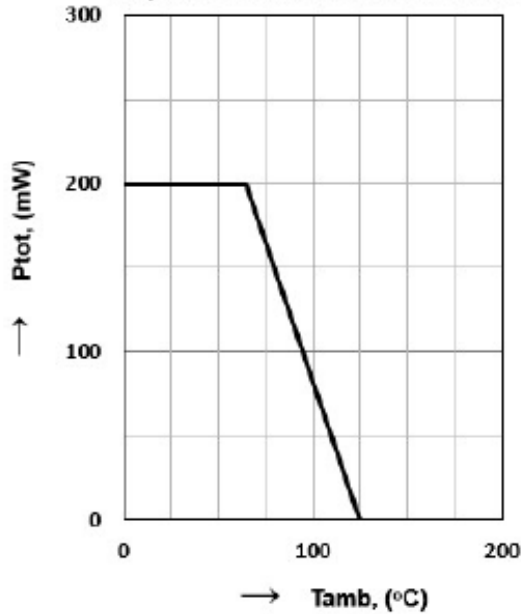
Note:

- Valid provided that electrodes are kept at ambient temperature.

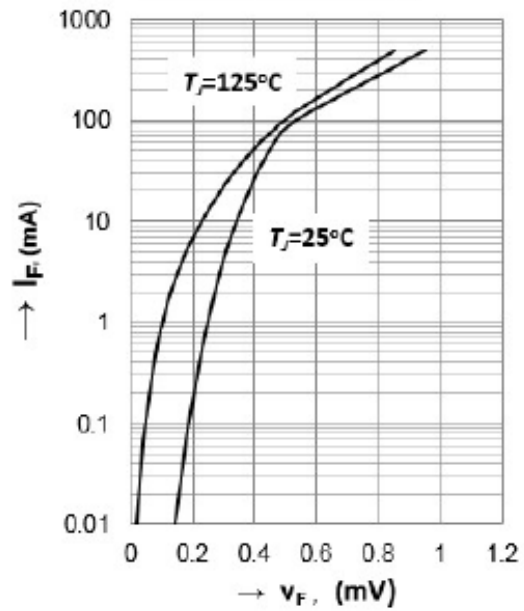
Ratings and Characteristics Curves

($T_A = 25^\circ\text{C}$ unless otherwise noted)

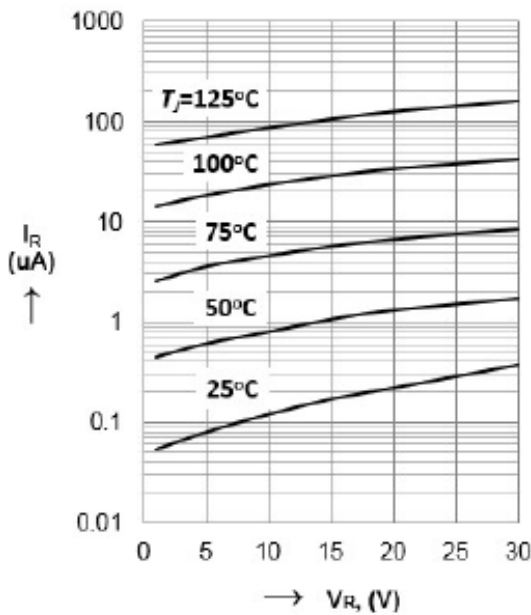
Admissible power dissipation versus ambient temperature
Valid provided that leads are kept ambient temperature at a distance of 9.5 mm from case



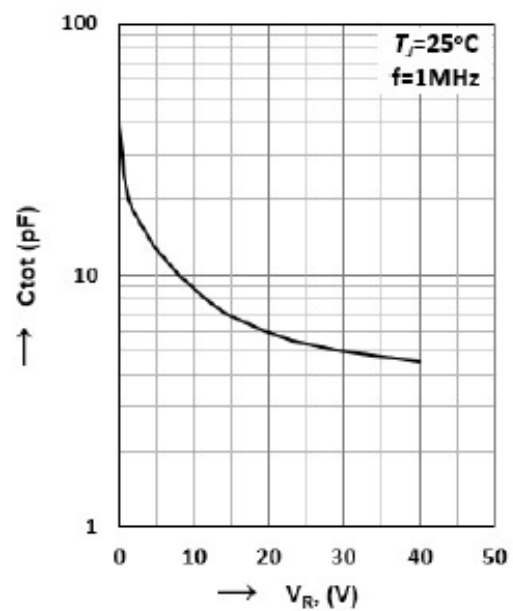
Forward characteristics



Leakage current versus junction temperature



Typical capacitance versus reverse voltage

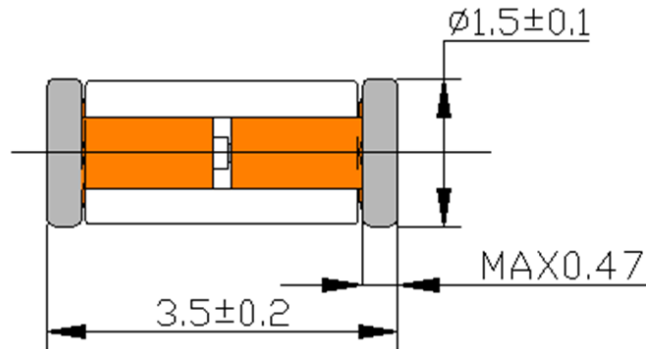


Package Outline Dimensions

in inches (millimeters)

LL-34 (MINI MELF)

CASE DIMENSION (LL-34 Type) Unit mm



Revision History

Document Version	Date of release	Description of changes
Rev.A	2021.06.01	Released Datasheet
Rev.B	2023.10.31	Modify document format

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