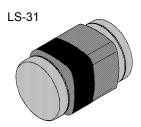
Silicon Epitaxial Planar Switching Diode

Fast switching diode in MiniMELF case especially suited for automatic surface mounting.



Glass Case MicroMELF

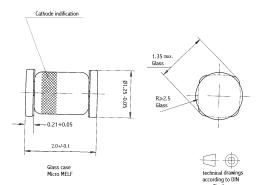
Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V _{RM}	100	V
Reverse Voltage	V _R	75	V
Average Rectified Forward Current	I _{F(AV)}	150	mA
Surge Forward Current at t < 1 s	I _{FSM}	500	mA
Power Dissipation	P _{tot}	500	mW
Junction Temperature	Tj	175	°C
Storage Temperature Range	T _{stg}	- 65 to + 175	°C

Characteristics at T_a = 25 °C

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at I _F = 5 mA at I _F = 100 mA	V _F	0.62	0.72 1	V
Reverse Leakage Current at $V_R = 20 V$ at $V_R = 75 V$ at $V_R = 20 V$, $T_j = 150 \circ C$	I _R I _R I _R	- -	25 5 50	nA μA μA
Reverse Breakdown Voltage at I _R = 100 μA	V _{(BR)R}	100	-	V
Capacitance at V _R = 0, f = 1 MHz	C _{tot}	-	4	pF
Reverse Recovery Time at I _F = 10 mA to I _R = 1 mA, V _R = 6 V, R _L = 100 Ω	t _{rr}	-	4	ns

Dimensions in mm

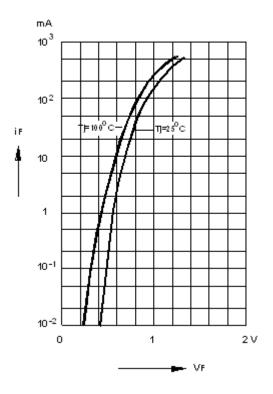




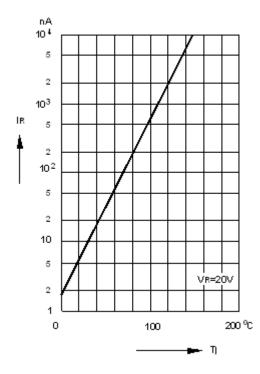
SEMTECH ELECTRONICS LTD. (Subsidiary of Sino-Tech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)

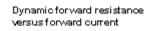


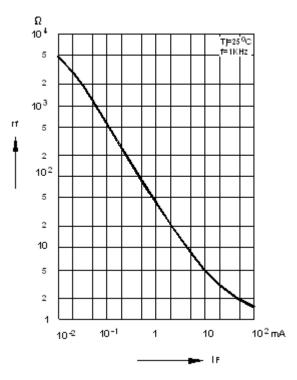
Forward characteristics



Leakage current versus junction temperature







Relative capacitance versus reverse voltage

