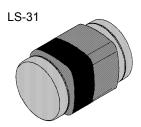
## Silicon Epitaxial Planar Switching Diode

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



Glass Case MicroMELF

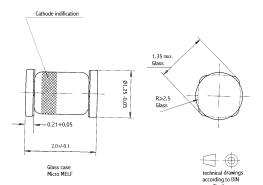
## Absolute Maximum Ratings (T<sub>a</sub> = 25 °C)

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

## Characteristics at T<sub>a</sub> = 25 °C

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at I <sub>F</sub> = 5 mA at I <sub>F</sub> = 100 mA	V <sub>F</sub>	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 <sub>R</sub> I <sub>R</sub> I <sub>R</sub>	- -	25 5 50	nA μA μA
Reverse Breakdown Voltage at I <sub>R</sub> = 100 μA	V <sub>(BR)R</sub>	100	-	V
Capacitance at V <sub>R</sub> = 0, f = 1 MHz	C <sub>tot</sub>	-	4	pF
Reverse Recovery Time at I <sub>F</sub> = 10 mA to I <sub>R</sub> = 1 mA, V <sub>R</sub> = 6 V, R <sub>L</sub> = 100 $\Omega$	t <sub>rr</sub>	-	4	ns

Dimensions in mm

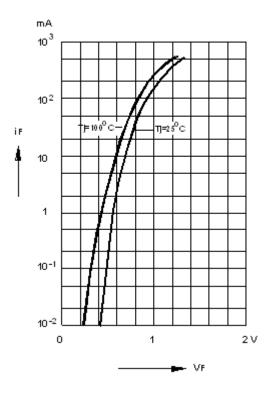




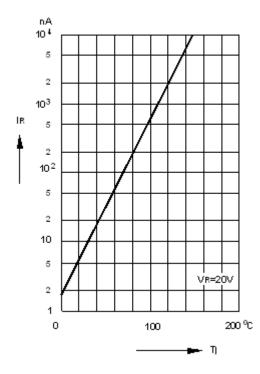
SEMTECH ELECTRONICS LTD. (Subsidiary of Sino-Tech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)

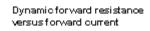


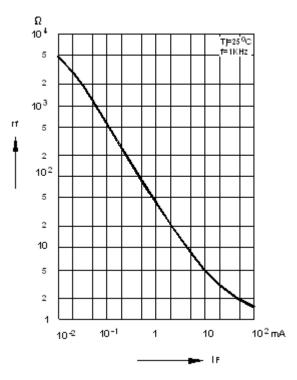
Forward characteristics



Leakage current versus junction temperature







Relative capacitance versus reverse voltage

