

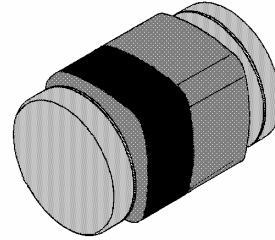
MCL-SS352

SILICON EPITAXIAL PLANAR DIODE

LS-31

Features

- Small package
- Low forward voltage
- Fast reverse recovery time
- Small total capacitance

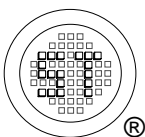


Applications

Extreme fast switches

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

Parameter	Symbol	Value	Unit
Maximum Peak Reverse Voltage	V_{RM}	85	V
Reverse Voltage	V_R	80	V
Maximum Peak Forward Current	I_{FM}	200	mA
Surge Current (10ms)	I_{FSM}	1	A
Average Forward Current	I_o	100	mA
Power Dissipation	P_{tot}	200	mW
Junction Temperature	T_j	125	$^\circ\text{C}$
Storage Temperature Range	T_s	-55 ... +125	$^\circ\text{C}$



SEMTECH ELECTRONICS LTD.

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



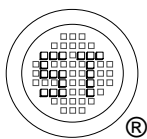
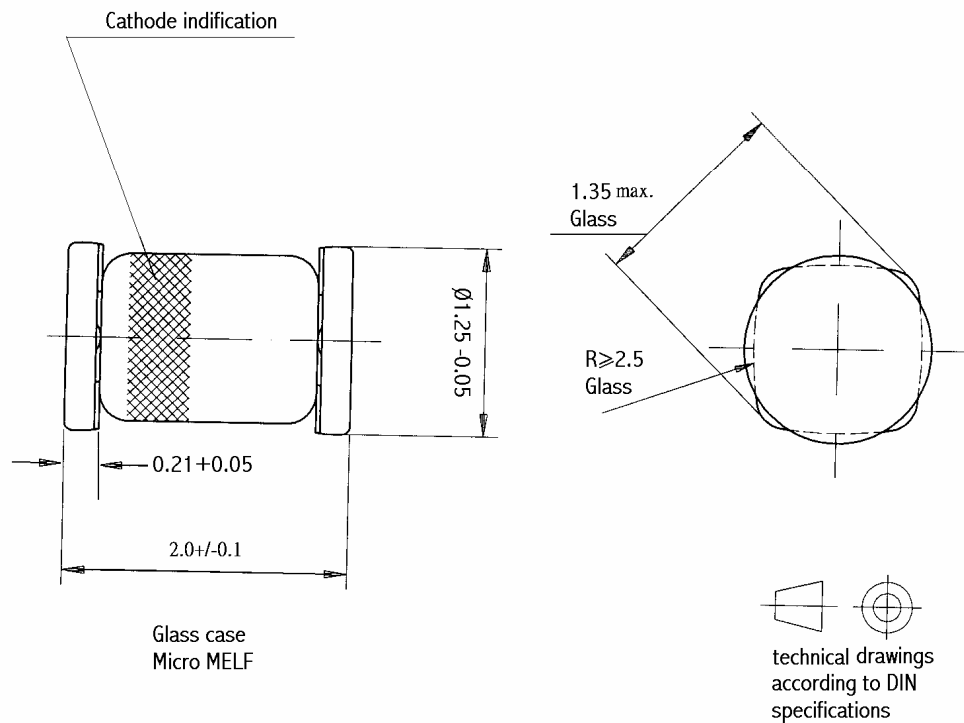
Dated : 18/10/2002

MCL-SS352

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

Parameter	Test Conditions	Symbol	Min	Typ	Max	Unit
Forward Voltage	$I_F = 1\text{mA}$	V_F	-	0.62	-	V
	$I_F = 10\text{mA}$	V_F	-	0.75	-	V
	$I_F = 100\text{mA}$	V_F	-	0.98	1.2	V
Reverse Current	$V_R = 30\text{V}$	I_R	-	-	0.1	μA
	$V_R = 80\text{V}$	I_R	-	-	0.5	μA
Total Capacitance	$V_R = 0, f = 1\text{MHz}$	C_T	-	0.5	3	pF
Reverse Recovery Time	$I_F = 10\text{mA}$	t_{rr}	-	1.6	4	ns

Dimensions in mm



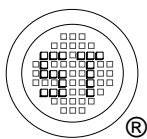
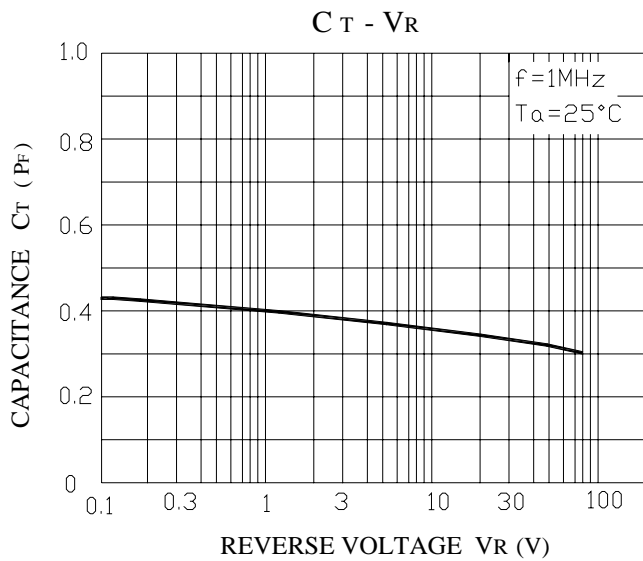
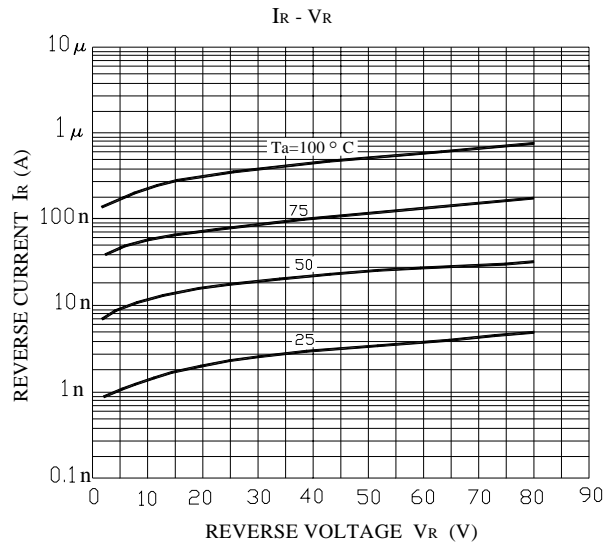
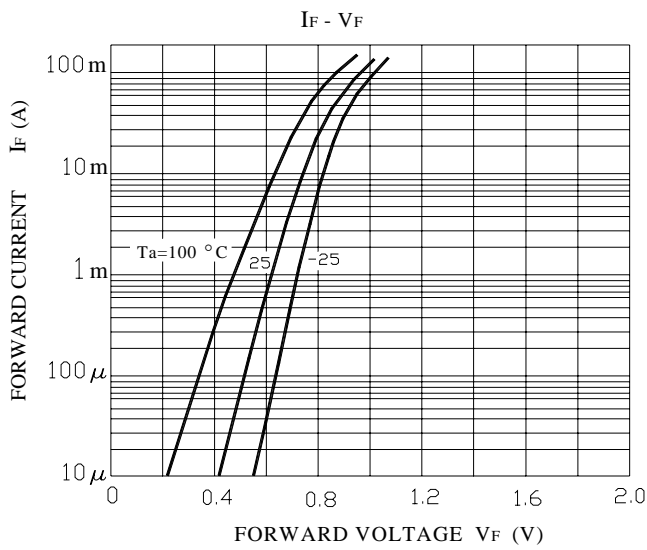
SEMTECH ELECTRONICS LTD.

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



Dated : 18/10/2002

MCL-SS352



SEMTECH ELECTRONICS LTD.

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



Dated : 18/10/2002