

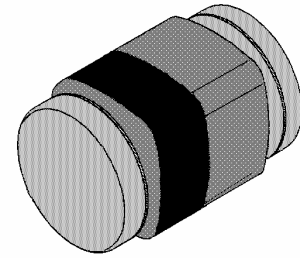
# MCL-SS352

## SILICON EPITAXIAL PLANAR DIODE

LS-31

### Features

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

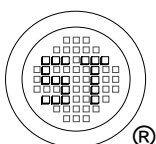


### Applications

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)



ISO/TS 16949 : 2002  
Certificate No. 05103



ISO 14001:2004  
Certificate No. 71116



ISO 9001:2000  
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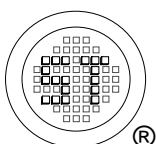
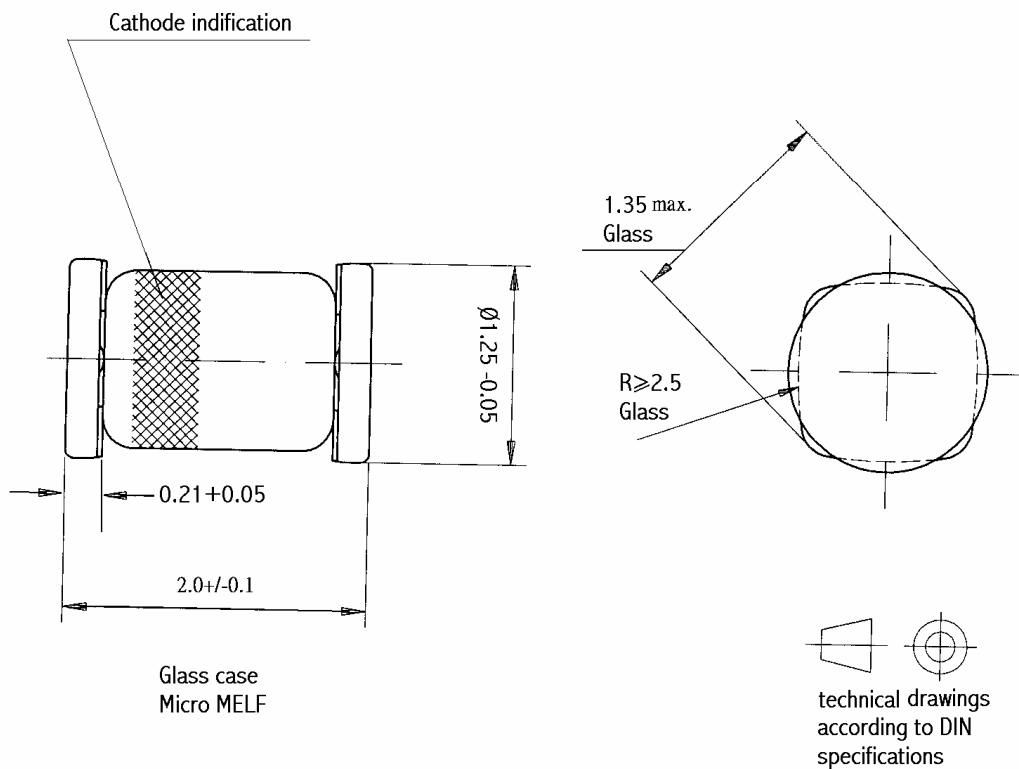
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## Characteristics at $T_j = 25\text{ }^\circ\text{C}$

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	$\mu\text{A}$
	$V_R = 80\text{V}$	$I_R$	-	-	0.5	$\mu\text{A}$
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



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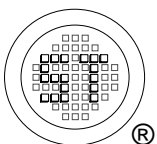
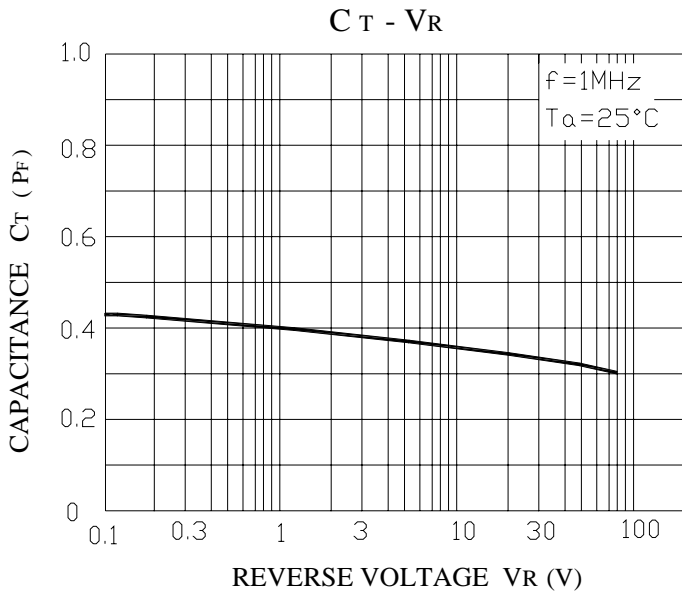
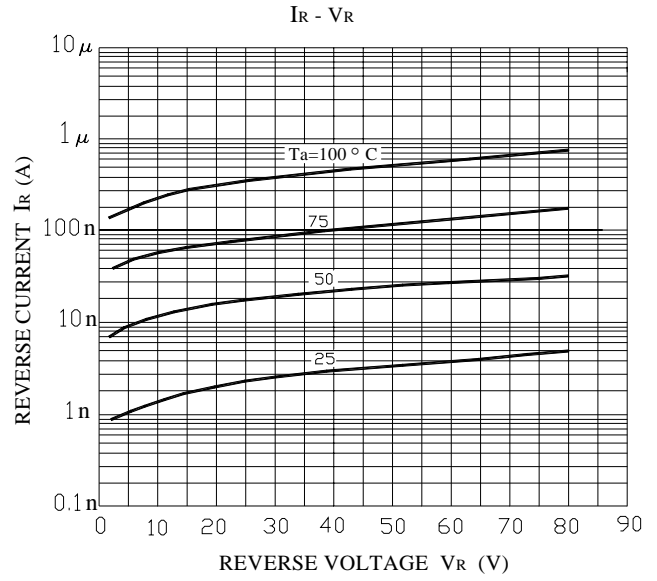
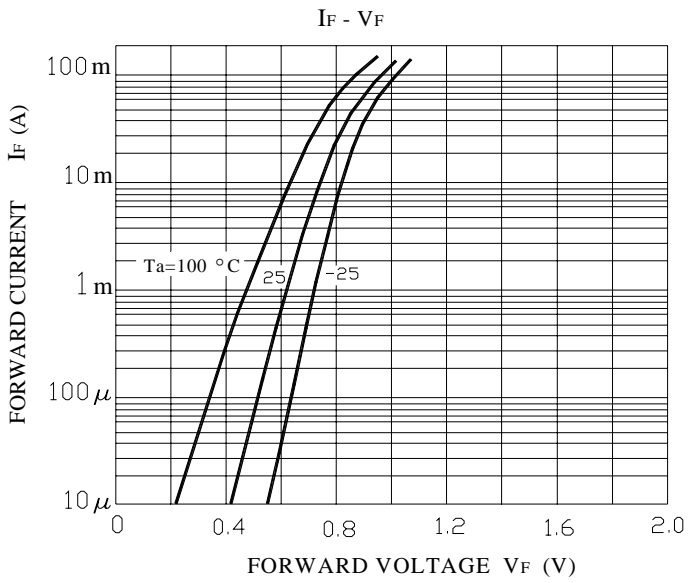
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