

## 30mA,40-60V 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



DO-35(DO-204AH)

### Applications

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

### Maximum Ratings & Electrical Characteristics (T<sub>A</sub>=25°C unless otherwise noted)

Parameter	Symbol	SD101A	SD101B	SD101C	Unit
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	60	50	40	V
Forward continuous current	I <sub>F</sub>	30			mA
Repetitive peak forward current at tp<1s, δ<0.5	I <sub>FRM</sub>	150			mA
Power dissipation (infinite heatsink)	P <sub>tot</sub>	400			mW
Maximum single cycle surge 10us square wave	I <sub>FSM</sub>	2			A
Maximum junction temperature	T <sub>J</sub>	125			°C
Storage temperature range	T <sub>STG</sub>	-65 to +150			°C

### Thermal-Mechanical Specifications (T<sub>A</sub>=25°C unless otherwise noted)

Parameter	Symbol	Typ	Unit
Thermal Resistance, Junction to Ambient	R <sub>θJA</sub>	300	°C /W

## Electrical Specifications (T<sub>A</sub>=25°C unless otherwise noted)

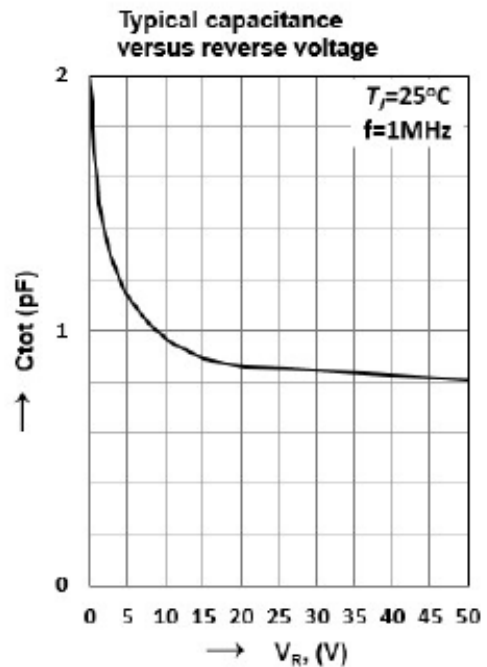
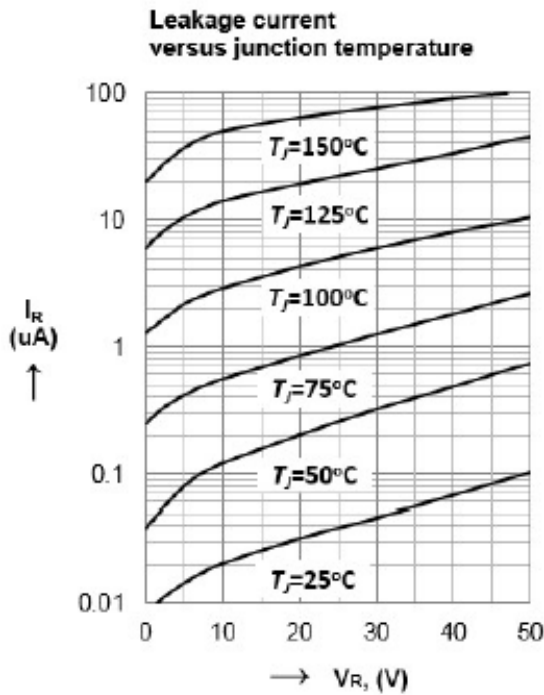
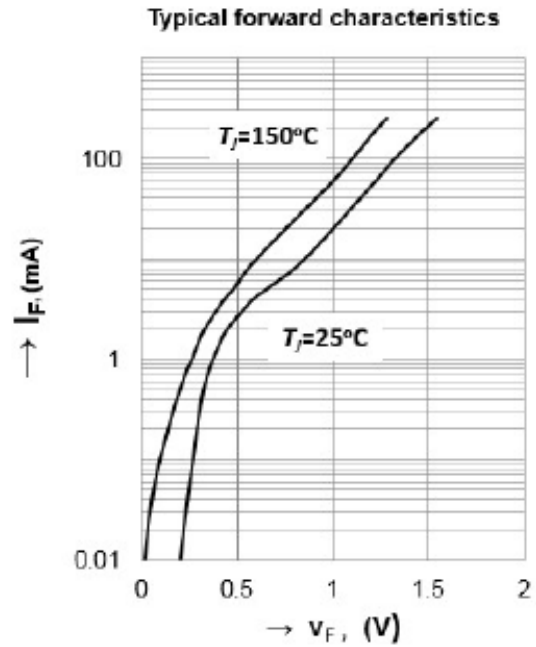
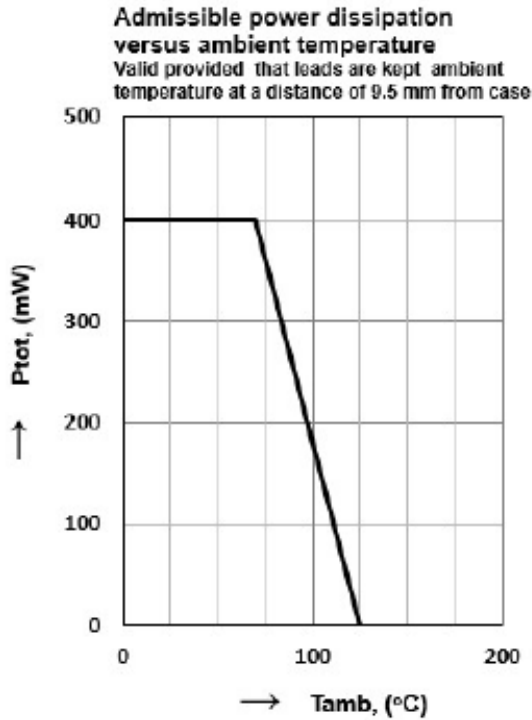
Parameter	Symbol	Test Conditions	Typ	Max	Unit	
Maximum forward voltage pulse test $t_p < 300\mu s, \delta < 2\%$	V <sub>F</sub>	I <sub>F</sub> =1mA	SD101A	-	0.41	V
			SD101B	-	0.40	
			SD101C	-	0.39	
		I <sub>F</sub> =15mA	SD101A	-	1.00	
			SD101B	-	0.95	
			SD101C	-	0.90	
Maximum leakage current pulse test $t_p < 300\mu s, \delta < 2\%$	I <sub>R</sub>	V <sub>R</sub> =50V	SD101A	-	0.20	uA
		V <sub>R</sub> =40V	SD101B	-		
		V <sub>R</sub> =30V	SD101C	-		
Maximum junction capacitance	C <sub>tot</sub>	0 V 1 MHz	SD101A	2		pF
			SD101B	2.1		
			SD101C	2.2		
Maximum reverse recovery time	t <sub>rr</sub>	I <sub>F</sub> =I <sub>R</sub> =5mA recover to 0.1 I <sub>R</sub>	1		nS	

Note:

- Valid provided that electrodes are kept at ambient temperature.

## Ratings and Characteristics Curves

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

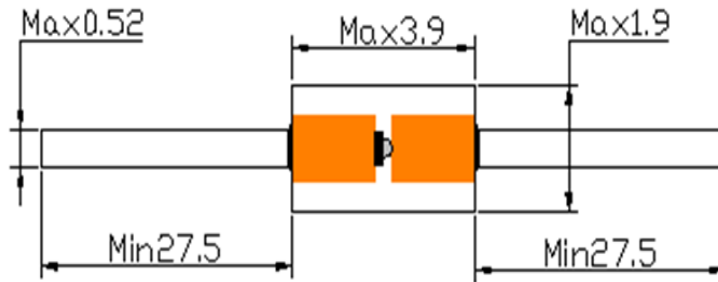


## Package Outline Dimensions

in inches (millimeters)

### DO-35 (DO-204AH)

CASE DIMENSION (DO-35 Type, 52mm), 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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