

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 _A =25°C unless otherwise noted)					
Parameter	Symbol	SD101A	SD101B	SD101C	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	60	50	40	V
Forward continuous current	I _F	30			mA
Repetitive peak forward current at tp<1s, δ<0.5	I _{FRM}	150			mA
Power dissipation (infinite heatsink)	P _{tot}	400			mW
Maximum single cycle surge 10us square wave	I _{FSM}	2			A
Maximum junction temperature	T _J	125			°C
Storage temperature range	T _{STG}	-65 to +150			°C

Thermal-Mechanical Specifications (T _A =25°C unless otherwise noted)			
Parameter	Symbol	Typ	Unit
Thermal Resistance, Junction to Ambient	R _{θJA}	300	°C /W

Electrical Specifications (T_A=25°C unless otherwise noted)

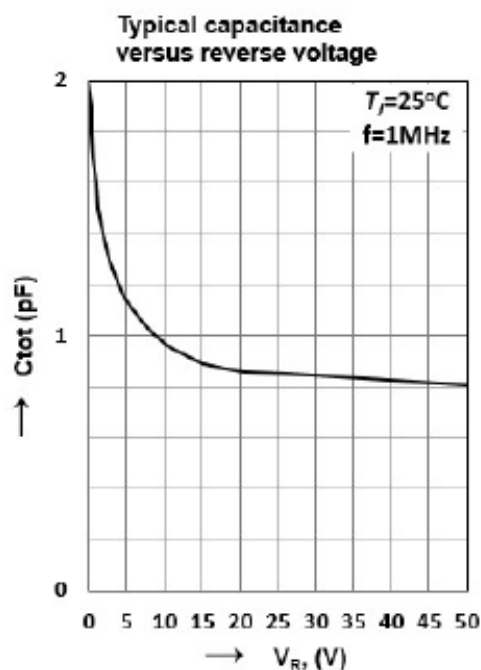
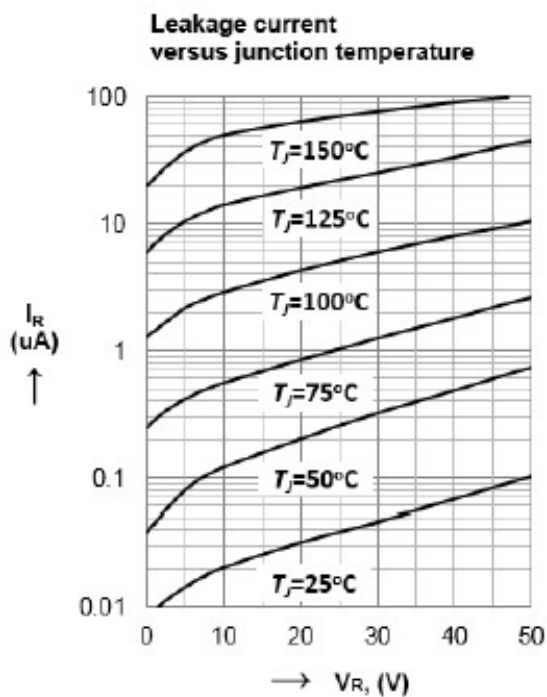
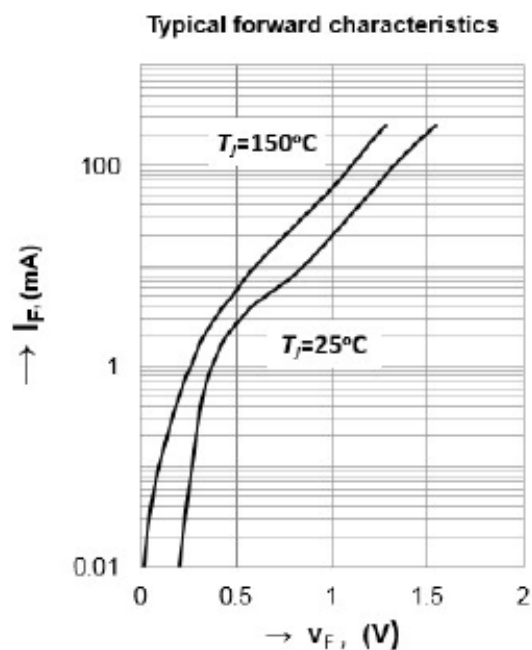
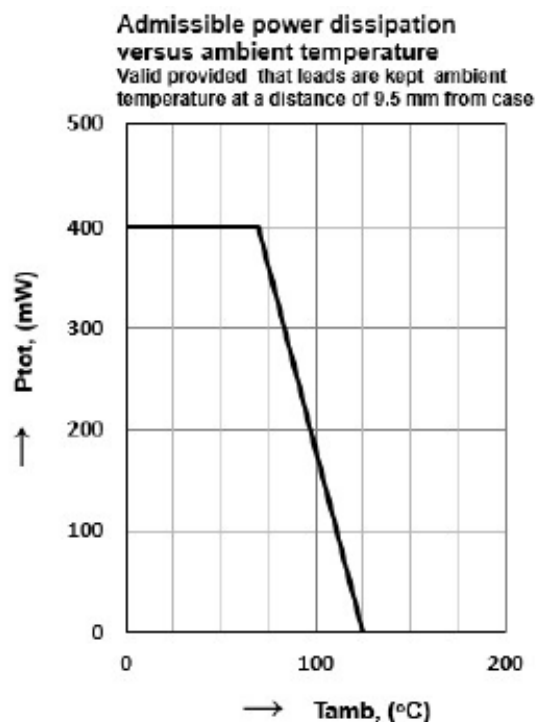
Parameter	Symbol	Test Conditions		Typ	Max	Unit
Maximum forward voltage pulse test tp<300us,δ<2%	V _F	I _F =1mA	SD101A	-	0.41	V
			SD101B	-	0.40	
			SD101C	-	0.39	
		I _F =15mA	SD101A	-	1.00	
			SD101B	-	0.95	
			SD101C	-	0.90	
Maximum leakage current pulse test tp<300us, δ<2%	I _R	V _R =50V	SD101A	-	0.20	uA
		V _R =40V	SD101B	-		
		V _R =30V	SD101C	-		
Maximum junction capacitance	C _{tot}	0 V 1 MHz	SD101A	2		pF
			SD101B	2.1		
			SD101C	2.2		
Maximum reverse recovery time	t _{rr}	I _F =I _R =5mA recover to 0.1 I _R		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)

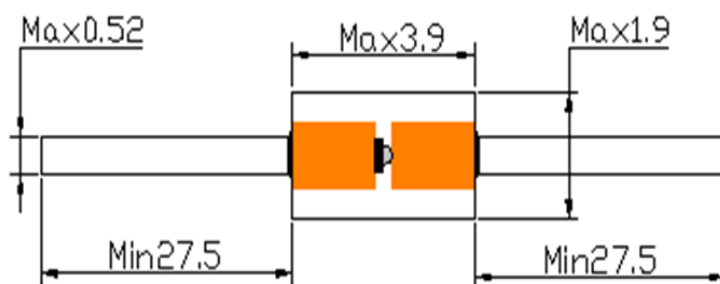


Package Outline Dimensions

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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