

400mW,20-40V 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	SD103A	SD103B	SD103C	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	40	30	20	V
Power dissipation (infinite heatsink)	P _{tot}	400			mW
Single cycle surge 60Hz sine wave	I _{FSM}	15			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

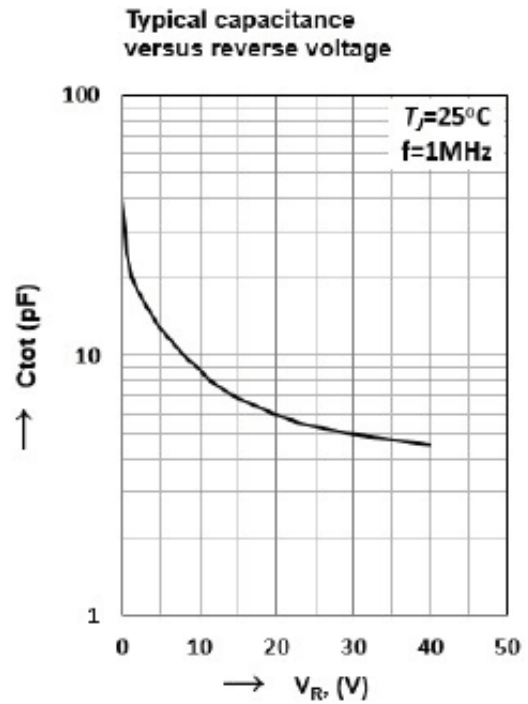
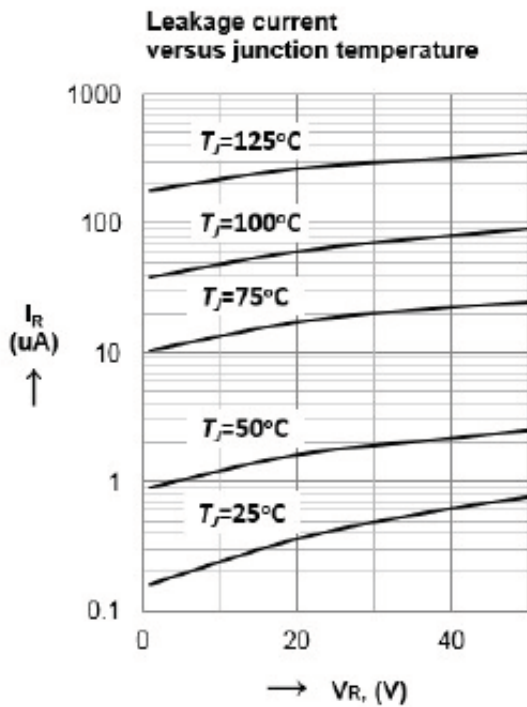
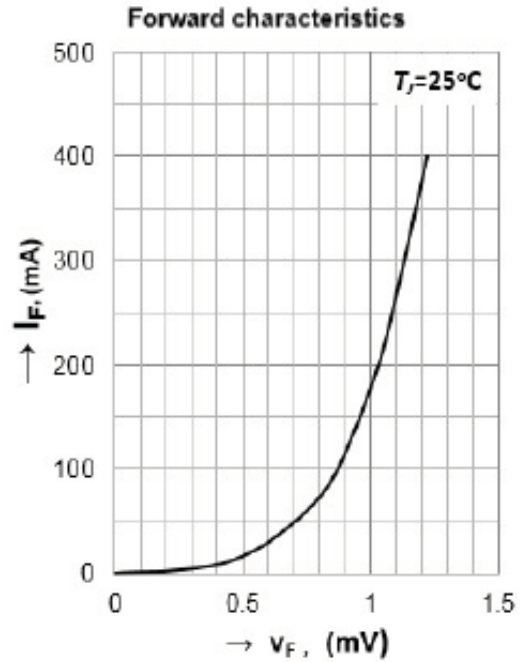
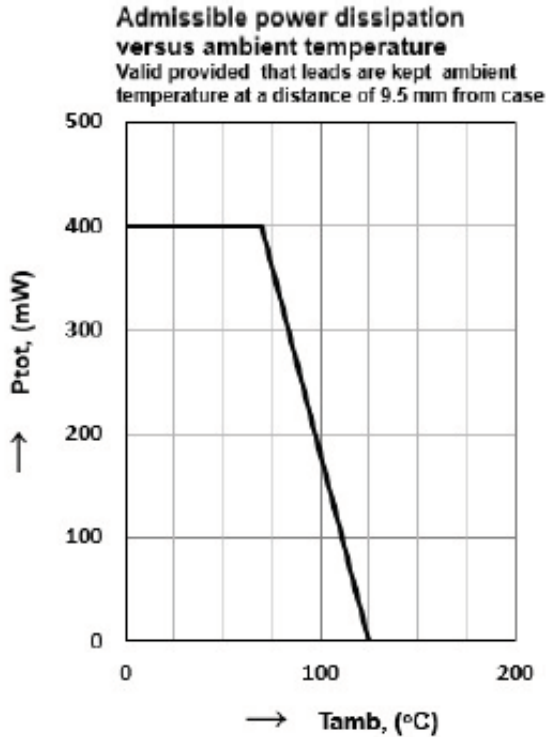
Electrical Specifications (T _A =25°C unless otherwise noted)						
Parameter	Symbol	Test Conditions		Typ	Max	Unit
Maximum forward voltage pulse test tp<300us, δ<2%	V _F	I _F =20mA		-	0.37	V
		I _F =200mA		-	0.60	
Maximum leakage current pulse test tp<300us, δ<2%	I _R	V _R =30V	SD103A	-	5	uA
		V _R =20V	SD103B	-		
		V _R =10V	SD103C	-		
Maximum junction capacitance	C _{tot}	0 V 1 MHz		50		pF
Maximum reverse recovery time	t _{rr}	I _F =I _R =5mA recover to 0.1 I _R		10		nS

Note:

- Valid provided that electrodes are kept at ambient temperature.

Ratings and Characteristics Curves

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

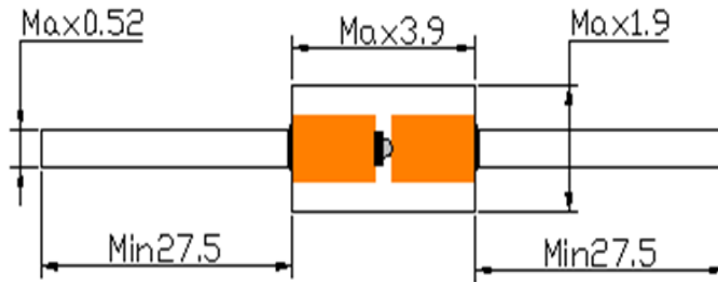


Package Outline Dimensions

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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