

100mA,100V 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	BAT41	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	100	V
Forward continuous current	I _F	100	mA
Repetitive peak forward current at tp<1s, δ<0.5	I _{FRM}	350	mA
Power dissipation (infinite heatsink)	P _{tot}	400	mW
Surge forward current at tp<10ms	I _{FSM}	750	mA
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

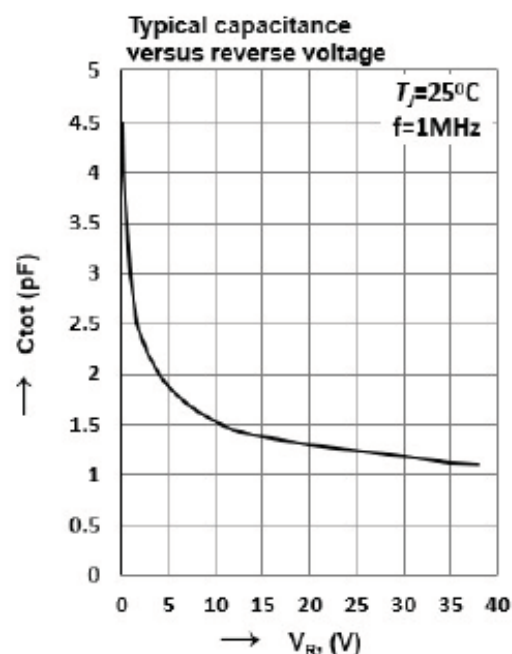
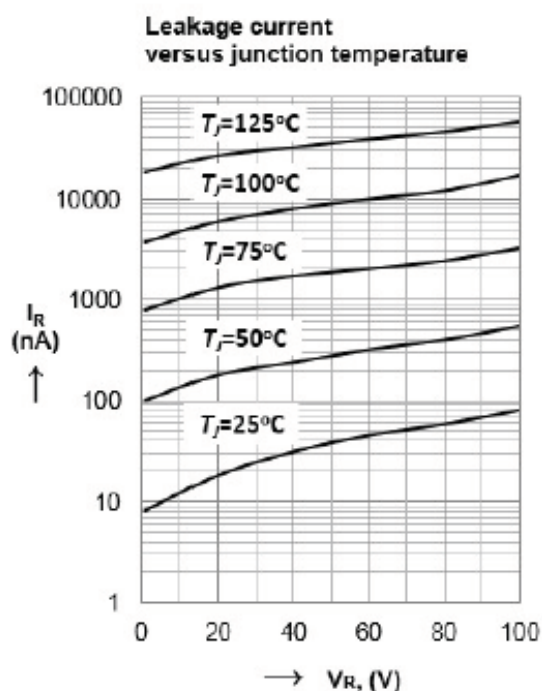
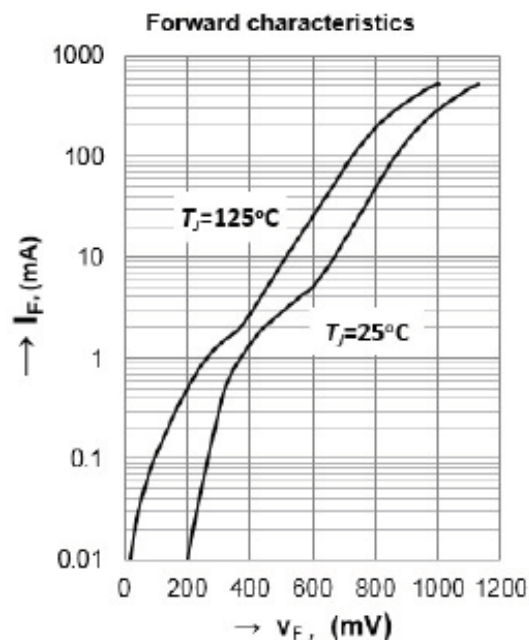
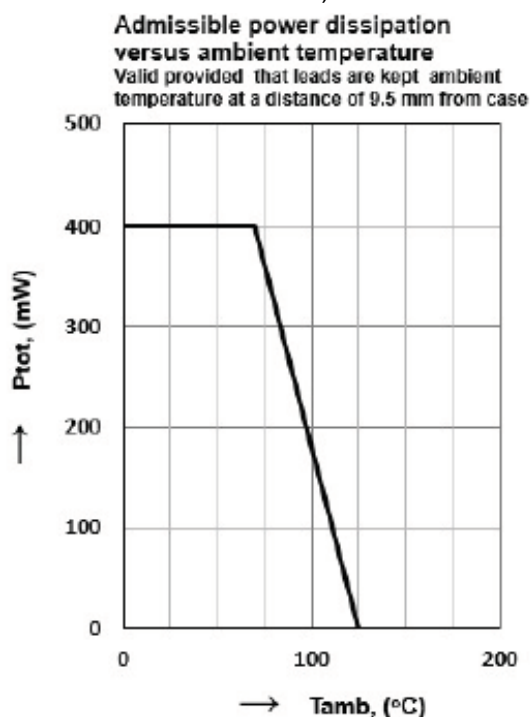
Electrical Specifications($T_A=25^{\circ}\text{C}$ unless otherwise noted)					
Parameter	Symbol	Test Conditions	Typ	Max	Unit
Maximum forward voltage pulse test $t_p<300\mu\text{s}$, $\delta<2\%$	V_F	$I_F=10\text{mA}$	-	0.45	V
		$I_F=200\text{mA}$	-	1.00	
Maximum leakage current pulse test $t_p<300\mu\text{s}$, $\delta<2\%$	I_R	$V_R=50\text{V}$ $T_J=25^{\circ}\text{C}$	-	0.10	μA
		$V_R=50\text{V}$ $T_J=100^{\circ}\text{C}$	-	20	
Typical junction capacitance	C_{tot}	1 V 1 MHz	2		pF
Maximum reverse recovery time	t_{rr}	$I_F=I_R=10\text{mA}$ $I_{rr}=1\text{mA}$, $R_L=100\Omega$	5		nS

Note:

- Valid provided that electrodes are kept at ambient temperature.

Ratings and Characteristics Curves

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

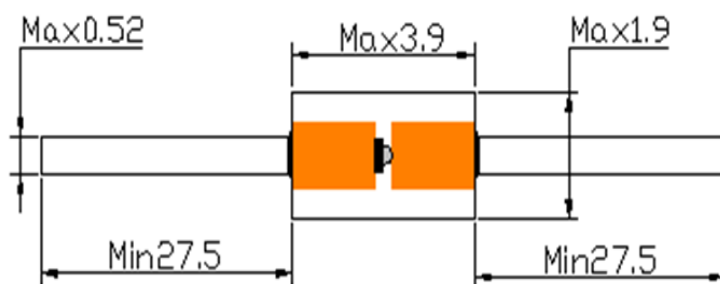


Package Outline Dimensions

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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