

200mA,30V 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 ℃/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(TA=25°C unless otherwise noted)				
Parameter	Symbol	BAT42	BAT43	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	30		V
Forward continuous current	lF	200 m		mA
Repetitive peak forward current at tp<1s, δ<0.5	I _{FRM}	500		mA
Power dissipation (infinite heatsink)	P _{tot}	200		mW
Surge forward current at tp<10ms	I _{FSM}	4		Α
Maximum junction temperature	Тл	125		°C
Storage temperature range	Tstg	-65 to +150		°C

Thermal-Mechanical Specifications (TA=25°C unless otherwise noted)				
Parameter	Symbol	Тур	Unit	
Thermal Resistance, Junction to Ambient	R _θ JA	300	°C /W	



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Parameter	Symbol	Test Conditions	Тур	Max	Unit
Maximum forward voltage pulse test tp<300us,δ<2%	V _F	I _F =200mA	-	1.00	V
		I _F =10mA	-	0.40	
		I _F =50mA	-	0.65	
		I⊧=2mA	-	0.33	
		I _F =15mA	-	0.45	
Maximum leakage current pulse test tp<300us, δ<2%	I _R	V _R =25V T _J =25°C	-	0.5	
		V _R =25V T _J =100℃	-	100	- uA
Typical junction capacitance	C _{tot}	1 V 1 MHZ	7		pF
Maximum reverse recovery time	t _{rr}	$I_F=I_R=10mA$ $I_T=1mA$, $RL=100\Omega$	5		nS

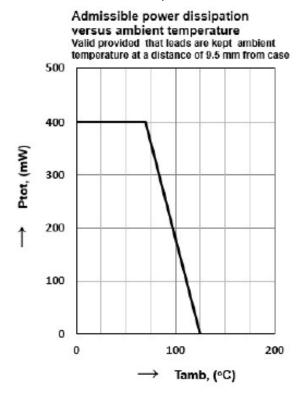
Note:

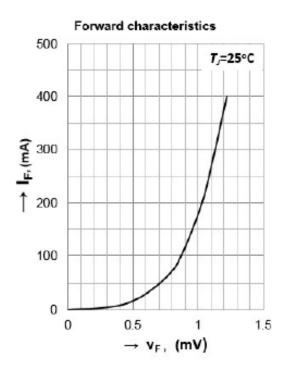
1. Valid provided that electrodes are kept at ambient temperature.

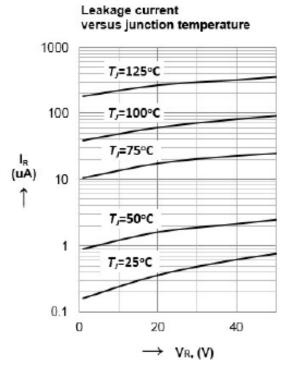


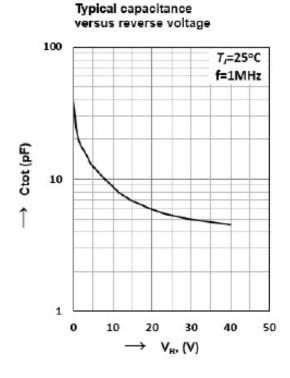
Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)











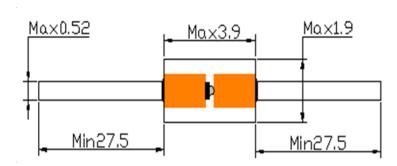
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Package Outline Dimensions

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



BAT42 thru BAT43

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