

5V100 DO-201AD

Trench MOS Barrier Schottky Rectifier

DO-201AD

5V100



Cathode → Anode

Features

- Advanced trench technology
- Low forward voltage drop
- Low power losses
- High efficiency operation
- Lead Free Finish, RoHS Compliant

Applications

- DC/DC Converters
- AC/DC Adaptors

Maximum ratings and electrical characteristics (TJ = 25°C unless otherwise noted)

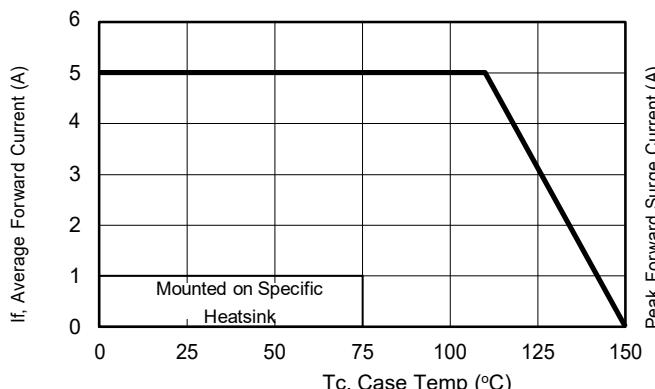
Parameter	Symbol	Limit	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	100	V
Maximum average forward rectified current	I _{F(AV)}	5	A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load per diode	I _{FSM}	200	A
Operating junction and storage temperature range	T _J , T _{STG}	-40 to +150	°C
Typical thermal resistance per diode (Mounted on FR-4 PCB)	R _{θJC}	22	°C/W
Instantaneous forward voltage I _F =2A TJ=25°C	V _{F(1)}	TYP.	MAX.
		0.49	-
		0.36	-
		-	0.54
		0.48	-
Instantaneous reverse current per diode at rated reverse voltage	I _{R(2)}	-	60
		-	40
			uA
			mA

Notes:

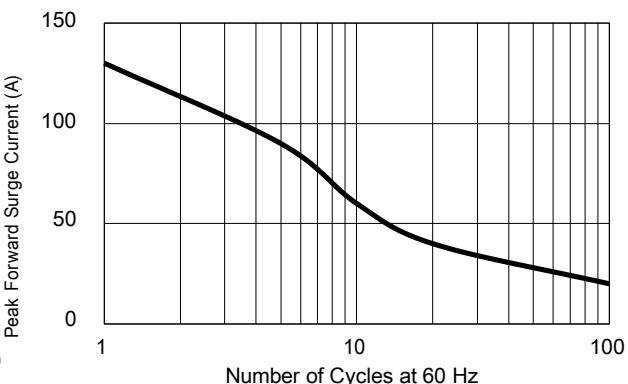
(1) Pulse test: 300 μs pulse width, 1 % duty cycle

(2) Pulse test: Pulse width ≤ 40 ms

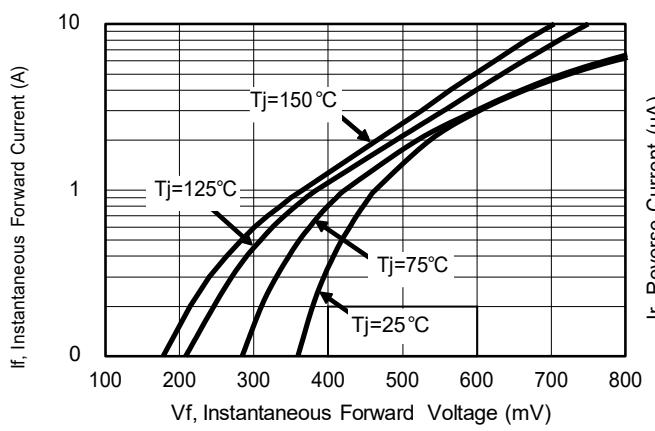
RATINGS AND CHARACTERISTICS CURVES



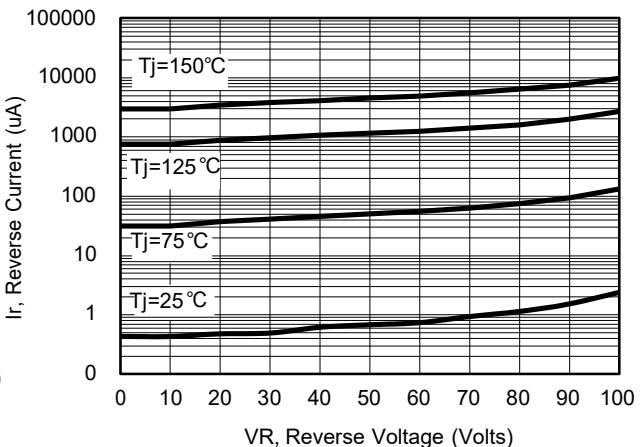
Current Derating, Case



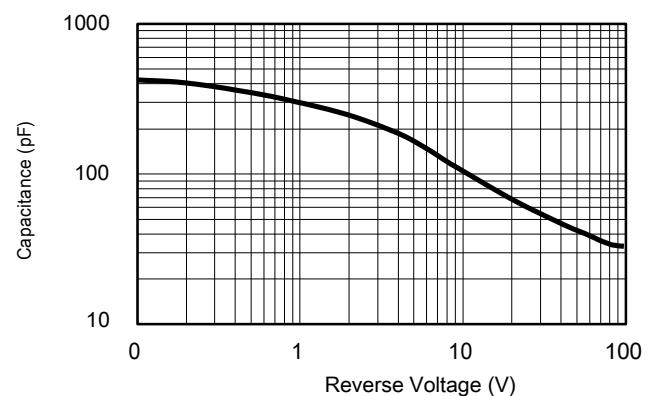
Maximum Repetitive Surge Current



Typical Forward Voltage



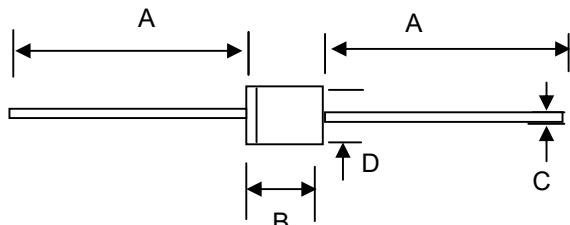
Typical Reverse Current



Typical Junction Capacitance

PACKAGE OUTLINE

DO-201AD



DO-201AD		
Dim.	Min.	Max.
A	25.4	-
B	7.3	9.5
C	1.2	1.3
D	4.8	5.3

All Dimensions in mm