

5L100 DO-201AD

Trench MOS Barrier Schottky Rectifier

DO-201AD

5L100



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 (T_J = 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}	130		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}	20		°C/W
Instantaneous forward voltage			V _{F(1)}	TYP.	MAX.	V
	I _F =2A	T _J =25°C		0.54	-	
	I _F =2A	T _J =125°C		0.48	-	
	I _F =5A	T _J =25°C		-	0.78	
	I _F =5A	T _J =125°C		0.65	-	
Instantaneous reverse current per diode at rated reverse voltage		T _J =25°C	I _{R(2)}	-	200	uA
		T _J =125°C		5	15	mA

Notes:

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

(2) Pulse test: Pulse width ≤ 40 ms

RATINGS AND CHARACTERISTICS CURVES

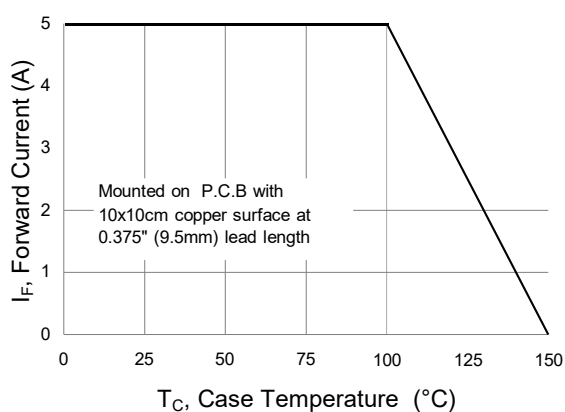


FIG. 1- FORWARD CURRENT DERATING CURVE

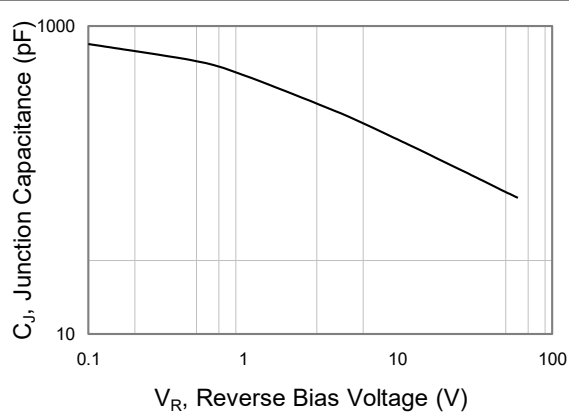


FIG. 2-TYPICAL JUNCTION CAPACITANCE

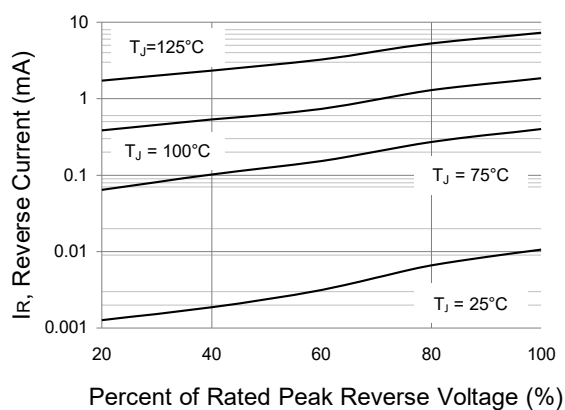


FIG. 3-TYPICAL REVERSE CHARACTERISTICS

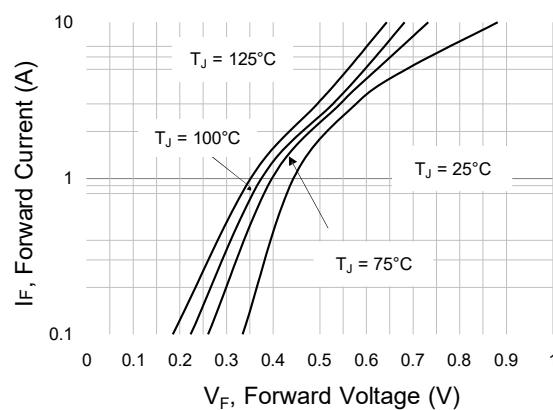
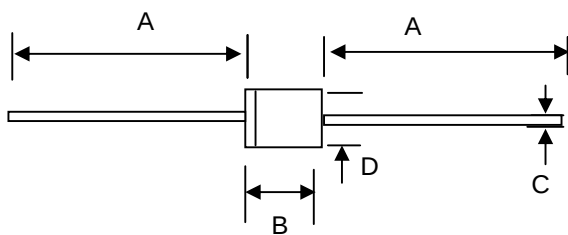


FIG. 4- FORWARD CURRENT DERATING CURVE

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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		