

# 6L45 DO-201AD

## Trench MOS Barrier Schottky Rectifier

DO-201AD

6L45



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<sub>J</sub> = 25°C unless otherwise noted)

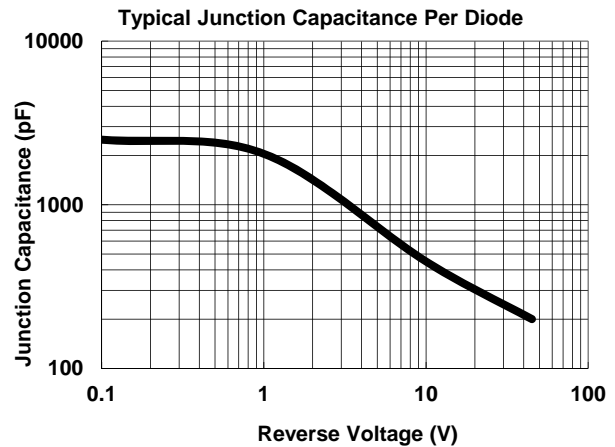
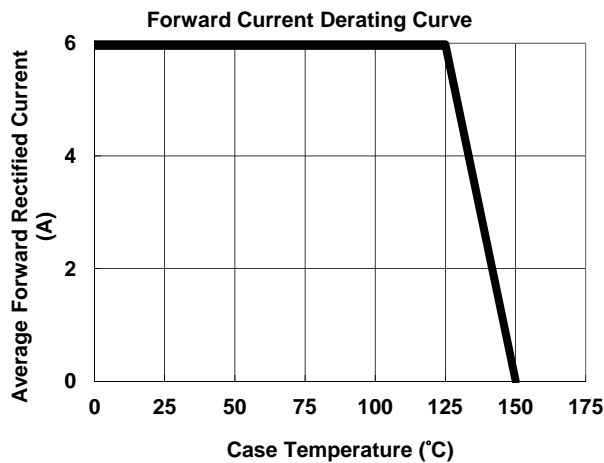
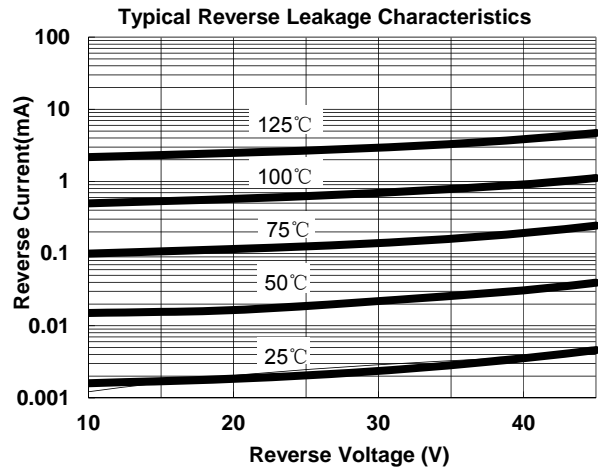
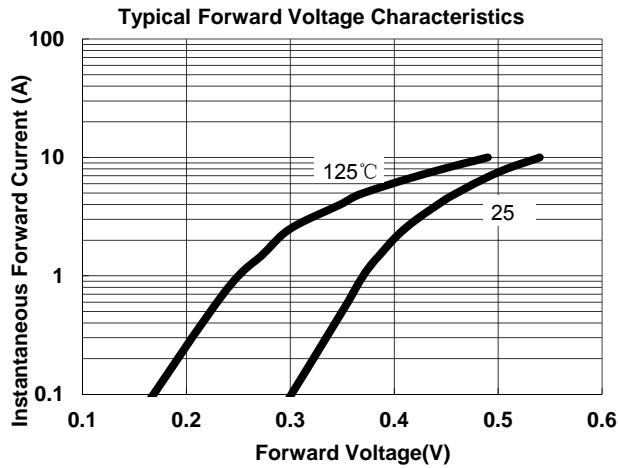
Parameter		Symbol	Limit		Unit
Maximum repetitive peak reverse voltage		V <sub>RRM</sub>	45		V
Maximum average forward rectified current		I <sub>F(AV)</sub>	6		A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load per diode		I <sub>FSM</sub>	150		A
Operating junction and storage temperature range		T <sub>J</sub> , T <sub>STG</sub>	-40 to +150		°C
Typical thermal resistance per diode (Mounted on FR-4 PCB)		R <sub>θJC</sub>	20		°C/W
Instantaneous forward voltage	I <sub>F</sub> =2A	V <sub>F(1)</sub>	TYP.	MAX.	V
	I <sub>F</sub> =2A		0.39	-	
	I <sub>F</sub> =6A		0.30	-	
	I <sub>F</sub> =6A		0.47	0.50	
Instantaneous reverse current per diode at rated reverse voltage	T <sub>J</sub> =25°C	I <sub>R(2)</sub>	5	50	uA
	T <sub>J</sub> =125°C		-	10	mA

Notes:

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

(2) Pulse test: Pulse width ≤ 40 ms

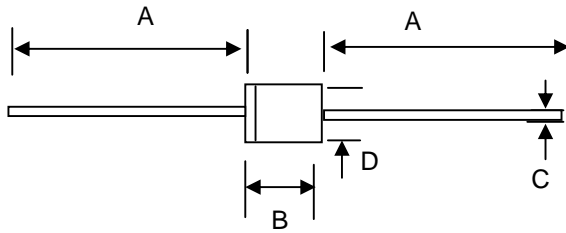
## RATINGS AND CHARACTERISTICS CURVES



# 6L45 DO-201AD

## 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		