

Trench MOS Barrier Schottky Rectifier

DO-201AD

1 1 LS 0 0 AT 2



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
- Switching Power Supplies
- Freewheeling Diodes

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

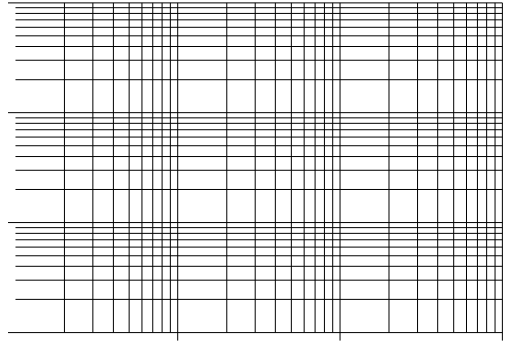
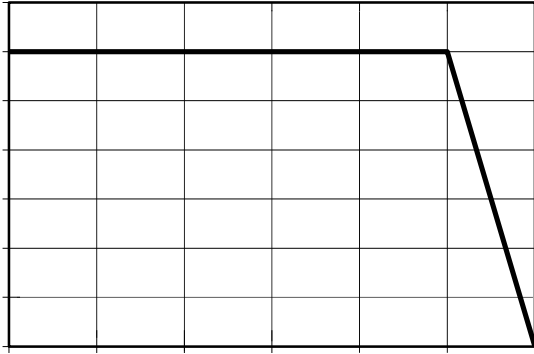
Parameter	Symbol	Limit	Unit		
Maximum repetitive peak reverse voltage	VRRM	100	V		
Maximum average forward rectified current	IF(AV)	12	A		
Peak forward surge current 8.3 ms single half sine- wave superimposed on rated load per diode	IFSM	200	A		
Operating junction and storage temperature range	TJ, TSTG	-5 to +150	°C		
Typical thermal resistance per leg	R _{JC}	22	°C/W		
Instantaneous forward voltage per diode	VF(1)	TYP.	MAX.	V	
		IF=2A TJ=25°C	0.41		0.44
		IF=2A TJ=125°C	0.36		-
		IF=12A TJ=25°C	0.62		0.67
		IF=12A TJ=125°C	0.57		-
Instantaneous reverse current per diode at rated reverse voltage	IR(2)	TJ=25°C	20	80	uA
		TJ=125°C	-	20	mA

Notes:

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

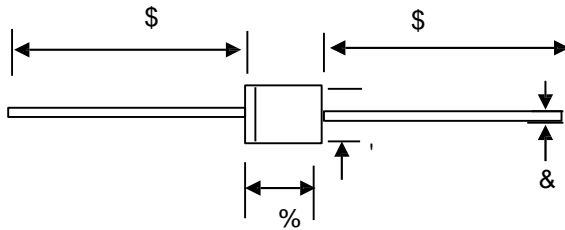
(2) Pulse test: Pulse width ≦ 40 ms

RATINGS AND CHARACTERISTICS CURVES (TA = 25 °C unless otherwise noted)



PACKAGE OUTLINE DIMENSIONS

DO-201AD

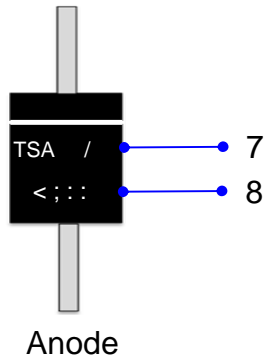


'2 \$' PHFKD QLFWD

8 1,7		\$	%	C	'
PP	PD[1.4	
	PLQ			1.1	
PLO	PD[5.1	
	PLQ				

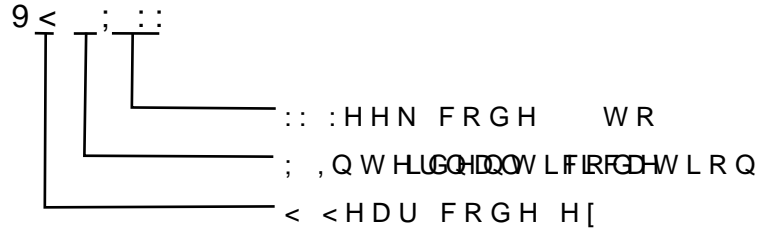
0DUNLQJ ,QIRUPDWLRQ

&DWKRGH



73URGXFW PRGH

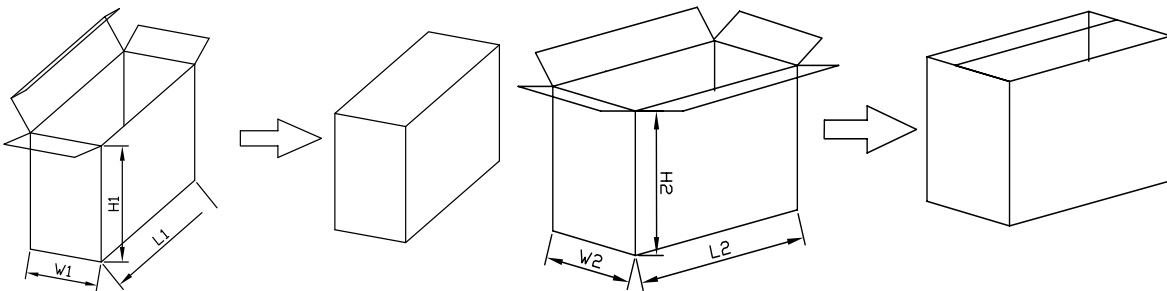
83' & LQIRUPDWLRQ



3DFNDJLQJ ,QIRUPDWLRQ

,QVLGH %R[

2XWVLGH %R[



3DFNDJLQJ ,QIRUPDWLRQ

12	81, 7	,QVLGH %R[2XWVLGH %R[
		/	:	+	/	:	+
6L]H	PP			4			
47<	3&6	6PDO SDVWDJH3&6 FDUWRQ			3&6 FDUWRQ HWRWDO		
1RW	7ROHUDQFH	PP" PP		PP" PP	PP" PP		