

## Schottky Barrier Rectifier

**DO-201AD**  
**SR5150**



Cathode   Anode

### Features

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

Parameter		Symbol	Limit		Unit
Maximum repetitive peak reverse voltage		VRRM	150		V
Maximum average forward rectified current		IF(AV)	5		A
Peak forward surge current 8.3 ms single half sine- wave superimposed on rated load per diode		IFSM	130		A
Operating junction and storage temperature range		TJ, TSTG	-50 to +150		°C
Typical thermal resistance per leg	DO-201AD	RθJC	20		°C/W
Instantaneous forward voltage per diode			TYP.	MAX.	V
	IF=5A	TJ=25°C	0.85	0.90	
	IF=5A	TJ=125°C	0.76	-	
Instantaneous reverse current per diode at rated reverse voltage	TJ=25°C		-	200	uA
	TJ=125°C		5	15	mA

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

Fig.1 Current Derating, Case

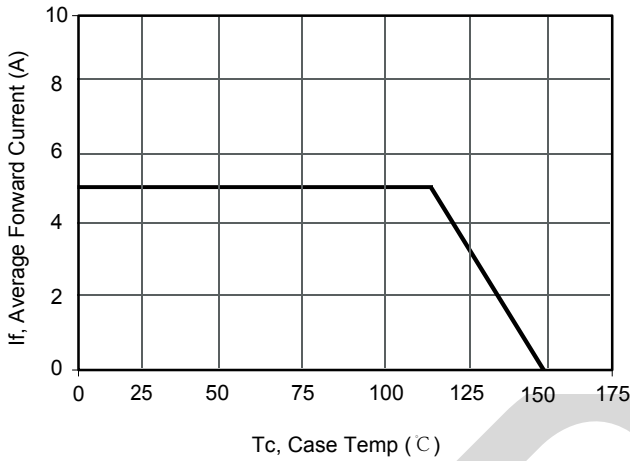


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

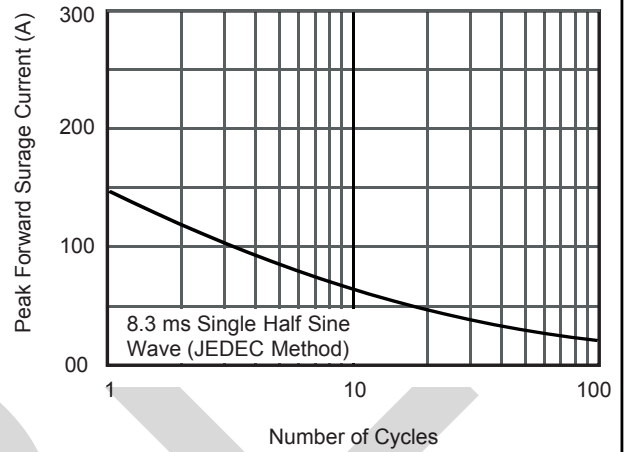


Fig.3 Typical Forward Voltage

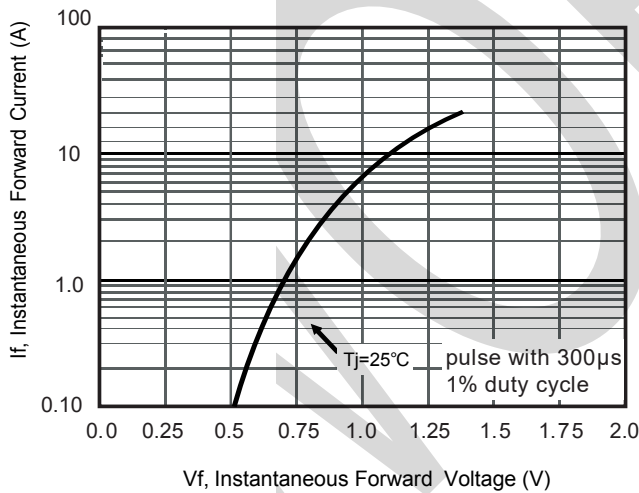
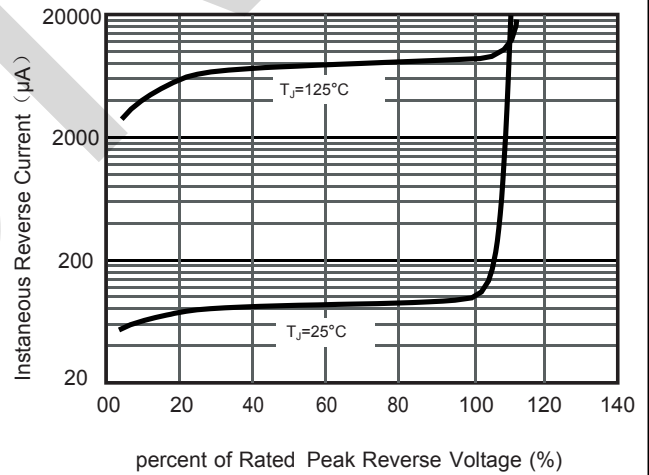
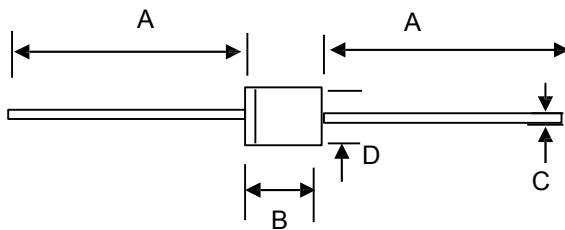


Fig.4 Typical Reverse Characteristics



## PACKAGE OUTLINE DIMENSIONS

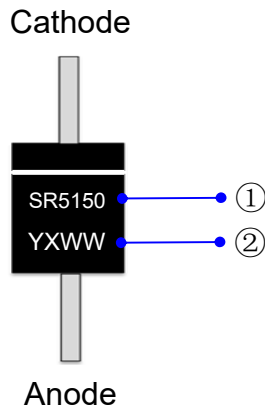
### DO-201AD



### DO-201AD mechanical data

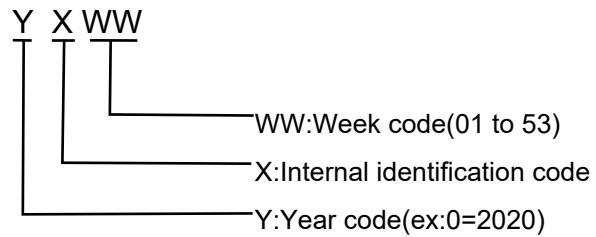
UNIT		A	B	C	D
mm	max	26.5	9.5	1.3	5.3
	min	24.5	7.3	1.2	4.8
mil	max	1043.30	374.01	51.18	208.67
	min	946.57	287.40	47.24	188.97

## Marking Information



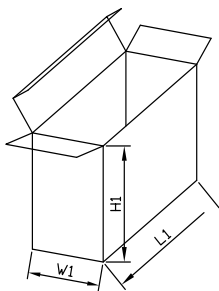
① Product model : SR5150

② PDC information:

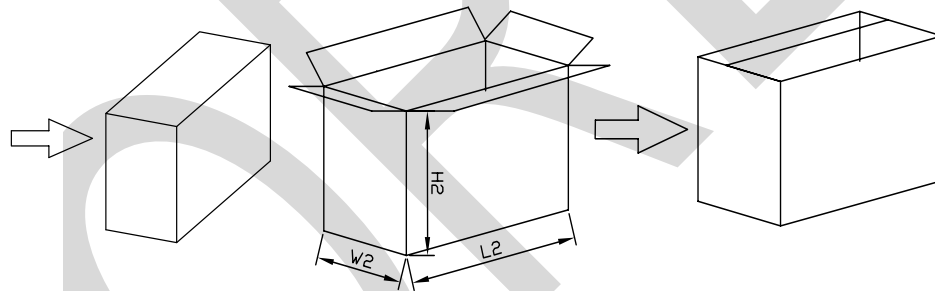


## Packaging Information

1. Inside Box



2. Outside Box



## Packaging Information

NO	UNIT	Inside Box			Outside Box		
		L1	W1	H1	L2	W2	H2
Size	mm	255	75	1115	415	280	320
QTY	PCS	Smallest package,1000PCS/carton			10,000PCS/carton,10 boxes in total		
Note	Tolerance	≤20mm,±3mm;		21-100mm,±5mm;	101-500mm,±10mm		