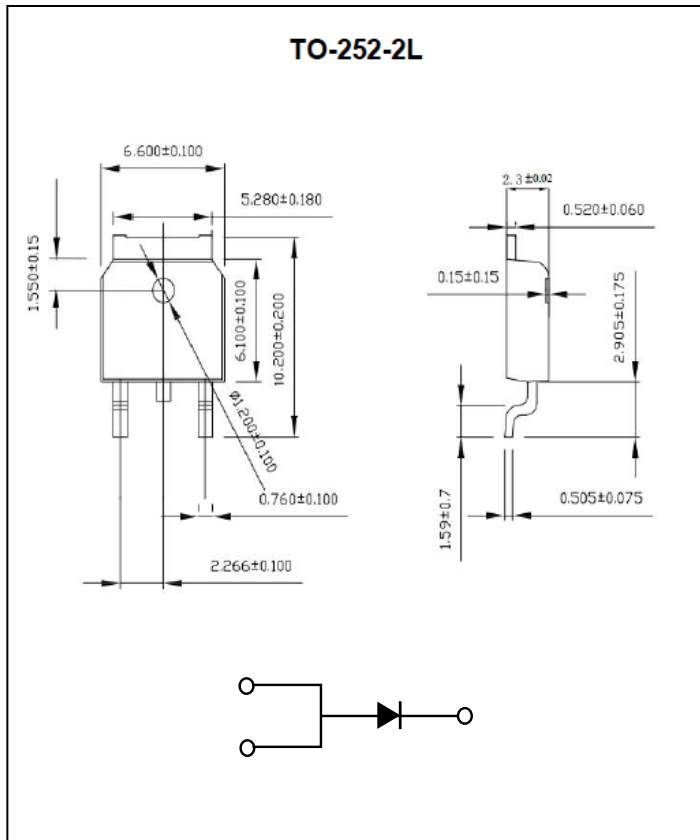


## Super Fast Rectifiers



### Features

- VR 600V
- IF 5A

### ■Absolute Maximum Ratings

Item	Symbol	Data	Unit
Maximal Inverted Repetitive Peak Voltage	VRRM	600	V
*Average Rectified Forward Current (Rated VR-20Khz Square Wave) - 50% duty cycle	IFAV	5	A
Typical Thermal Resistance(per leg) Package =TO-252-2L	R $\theta$ Jc	3	°C/W
MAX. Reverse Recovery Time(IF=0.5A IR=1.0A IREC=0.25A)	TRR	35	nS
Forward Peak Surge Current(Rated Load 8.3 Half Mssine Wave-According to JEDEC Method)	IFSM	80	A
Maximum Rate of Voltage Change ( at Rated VR )	dv/dt	10000	V/uS
Peak Repetitive Reverse Surge Current (2uS-1Khz)	IRRM	0.5	A
Operating Junction Temperature	TJ	150	°C
Storage Temperature	TSTG	-40~150	°C



# SF506ACS

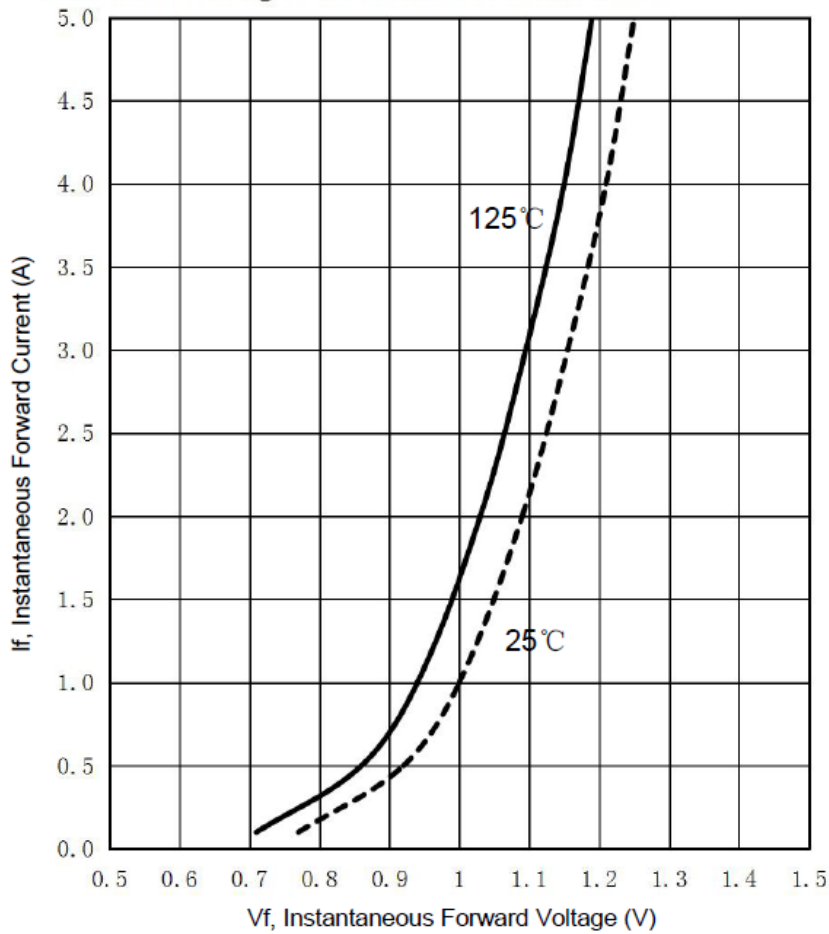
## ■ Electrical Characteristics

Item	Test Condition		TYP.	MAX.	Unit
IR	TJ =25°C	VR=600V		0.01	mA
	TJ =125°C			1.00	mA
VF	TJ =25°C	IF=5A	1.3	1.7	V
	TJ =125°C			1.3	V

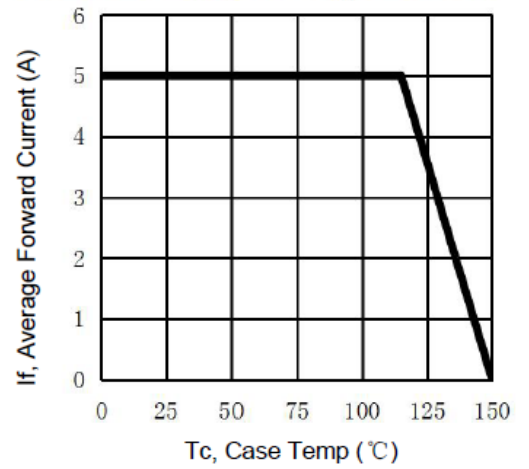
\*IF(AV)= 5×1

## ■ Characteristics (Typical)

### The forward voltage and forward current curve



### Current derating curve, per element





# SF506ACS

## ■ Characteristics (Typical)

The reverse leak current and the reverse voltage (single-device) curve.

