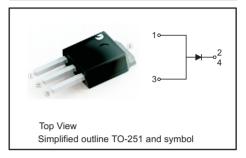
Surface Mount Super fast Recovery Rectifier Reverse Voltage – 800 V Forward Current – 8.0 A

### **FEATURES**

- · High current capability
- · Low forward voltage drop
- Low power loss, high efficiency
- · High surge capability
- · High temperature soldering guaranteed

#### **PINNING**

PIN	DESCRIPTION	
2,4	Cathode	
1,3	Anode	



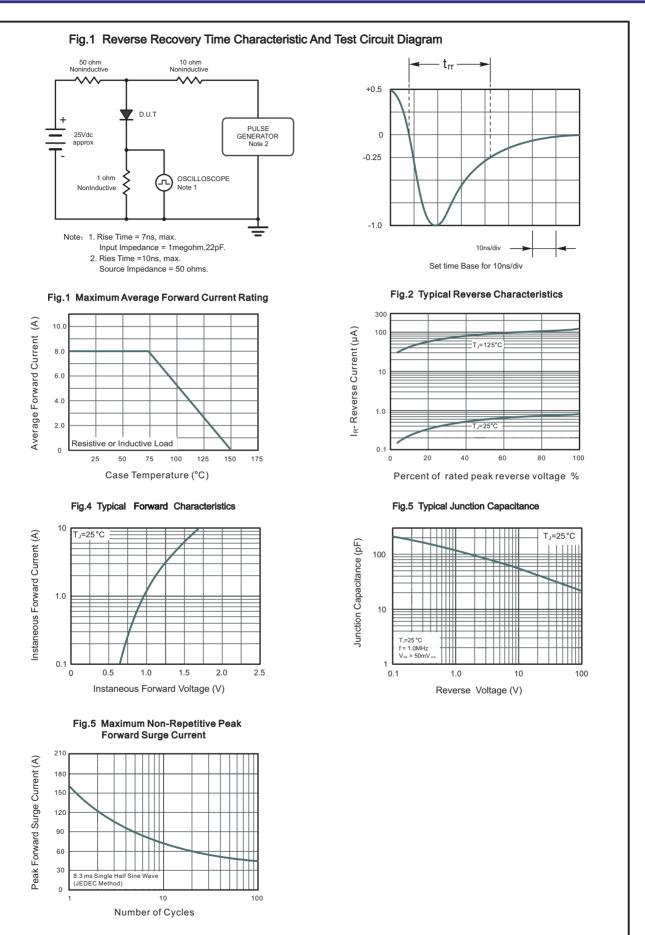
### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

Parameter	Symbols	SF808VYC	Units
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	800	V
Maximum RMS voltage	V <sub>RMS</sub>	560	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	800	V
Maximum Average Forward Rectified Current @ Fig.1	I <sub>F(AV)</sub>	8	А
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	160	А
Peak Forward Surge Current,1.0ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	320	А
I <sup>2</sup> t Rating for fusing (3ms≤t≤8.3ms)	l <sup>2</sup> t	106.2	A <sup>2</sup> S
Max Instantaneous Forward Voltage at 8 A	V <sub>F</sub>	2.5	V
Maximum DC Reverse Current $T_a = 25$ °C at Rated DC Reverse Voltage $T_a = 125$ °C	I <sub>R</sub>	1 300	μА
Typical Junction Capacitance (1)	C <sub>j</sub>	109	pF
Maximum Reverse Recovery Time (2)	t <sub>rr</sub>	35	ns
Typical Thermal Resistance (without heat sink)	R <sub>ØJA</sub> R <sub>ØJC</sub> R <sub>ØJL</sub>	55 6 10	°C/W
Operating and Storage Temperature Range	$T_j, T_{stg}$	-55 ~ +150	°C

<sup>(1)</sup> Measured at 1 MHz and applied reverse voltage of 4 V D.C

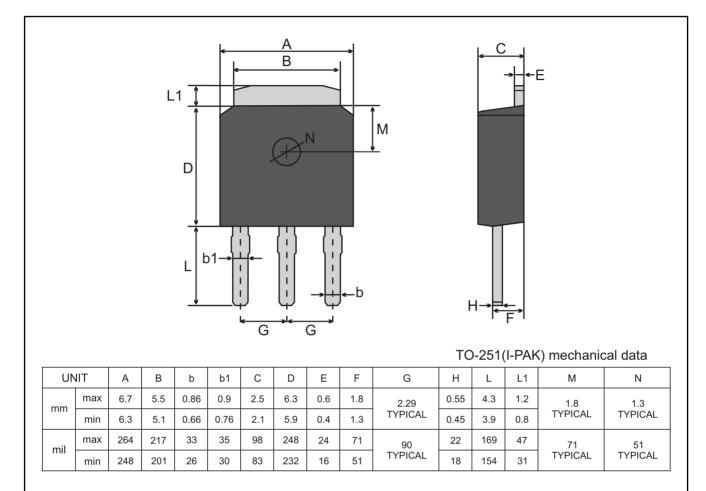
<sup>(2)</sup> Measured with  $I_F = 0.5 \text{ A}$ ,  $I_R = 1 \text{ A}$ ,  $I_{rr} = 0.25 \text{ A}$ .



## PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

TO-251



# Marking

Type number	Marking code
SF808VYC	SF808VY

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