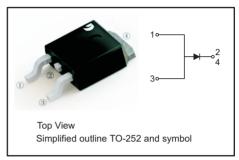
Surface Mount Super fast Recovery Rectifier Reverse Voltage – 800 V Forward Current – 8.0 A

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

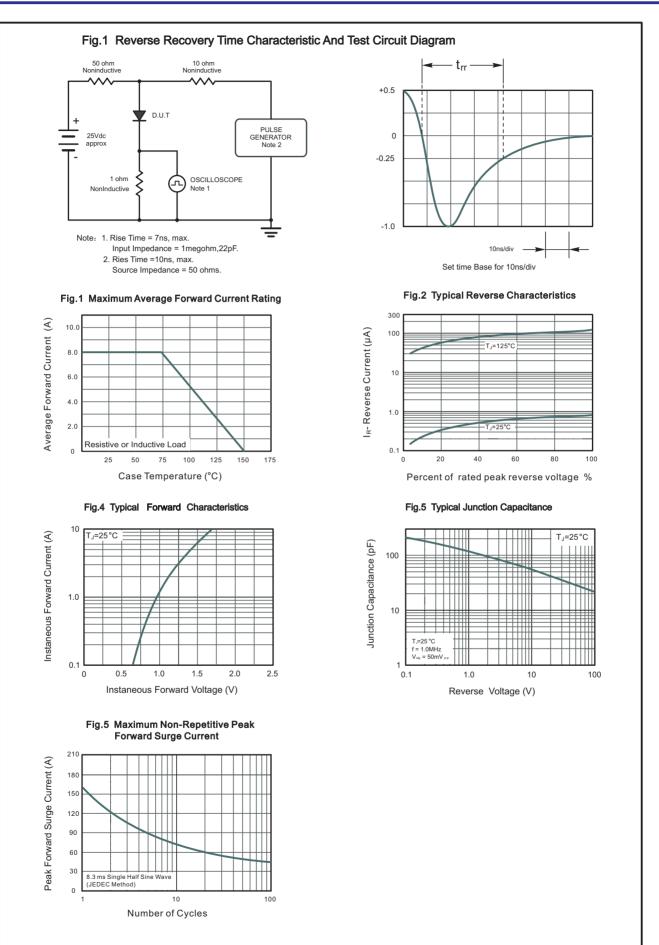
Ratings at 25°C ambient temperature unless otherwise specified

Parameter	Symbols	SF808DYC	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	800	V
Maximum RMS voltage	V _{RMS}	560	V
Maximum DC Blocking Voltage	V _{DC}	800	V
Maximum Average Forward Rectified Current @ Fig.1	I _{F(AV)}	8	А
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	160	А
Peak Forward Surge Current,1.0ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	320	А
I ² t Rating for fusing (3ms≤t≤8.3ms)	l ² t	106.2	A ² S
Max Instantaneous Forward Voltage at 8 A	V _F	2.5	V
Maximum DC Reverse Current $T_a = 25$ °C at Rated DC Reverse Voltage $T_a = 125$ °C	I _R	1 300	μА
Typical Junction Capacitance (1)	C _j	109	pF
Maximum Reverse Recovery Time (2)	t _{rr}	35	ns
Typical Thermal Resistance (3)	R _{ØJA} R _{ØJC} R _{ØJL}	55 6 10	°C/W
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150	°C

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

⁽²⁾ Measured with I_F = 0.5 A, I_R = 1 A, I_{rr} = 0.25 A.

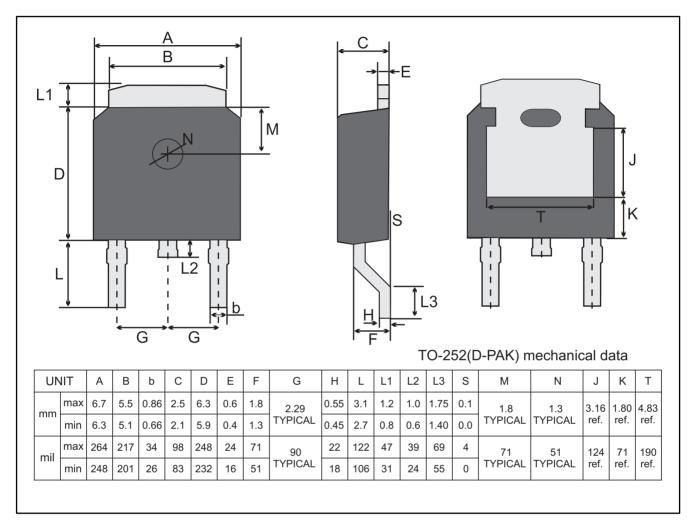
⁽³⁾ P.C.B. mounted with 0.3" X 0.3" (8mm X 8mm) copper pad areas.



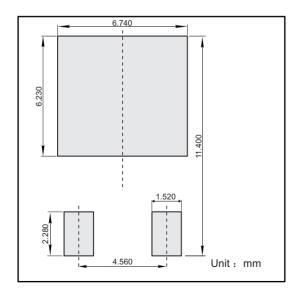
PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

TO-252



The recommended mounting pad size



Marking

Type number	Marking code
SF808DYC	SF808DY

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