MSKSEMI 美森科













ESD

TV

TSS

MOV

GDT

PLED

ES2JW(E2H)

Product specification





Surface Mount Superfast Recovery Rectifier Reverse Voltage – 50 to 600 V Forward Current – 2 A

PACKAGE OUTLINE	PINNING		Marking
2	PIN	DESCRIPTION	
	1	Cathode	E2H
_	2	Anode	

Features

- Easy pick and place
- For surface mounted applications
- Low profile package
- Built-in strain relief
- Superfast recovery times for high efficiency

MECHANICAL DATA

- Case: SOD- 123FL
- Terminals: Solderable per MIL-STD-750 , Method 2026
- Approx. Weight:15mg 0 .00053oz

Absolute Maximum Ratings and Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

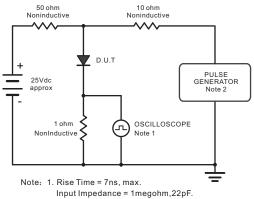
Parameter	Symbols	Value	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	600	V
Maximum RMS voltage	V _{RMS}	420	V
Maximum DC Blocking Voltage	V _{DC}	600	V
Maximum Average Forward Rectified Current at T_c = 125 °C	I _{F(AV)}	2	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	IFSM	50	Α
Maximum Forward Voltage at 2 A	V _F	1 .68	V
Maximum DC Reverse Current $T_a = 25 ^{\circ}\text{C}$ at Rated DC Blocking Voltage $T_a = 125 ^{\circ}\text{C}$	l R	5 100	μΑ
Typical Junction Capacitance at V _R =4V, f= 1MHz	Cj	30	pF
Maximum Reverse Recovery Time (1)	t _{rr}	35	ns
Typical Thermal (2) Resistance	Røja R _{øjc}	75 22	°C/W
Operating and Storage Temperature Range	Tj, Tstg	-55 ~ +150	°C

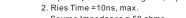
⁽¹⁾ Measured with IF = 0.5 A, IR = 1 A, I rr = 0.25 A.

⁽²⁾ P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.



Fig.1 Reverse Recovery Time Characteristic And Test Circuit Diagram







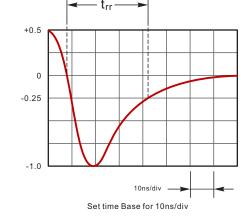


Fig.2 Maximum Average Forward Current Rating

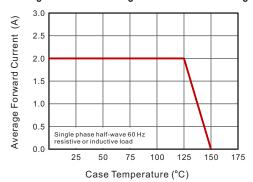


Fig.4 Typical Forward Characteristics

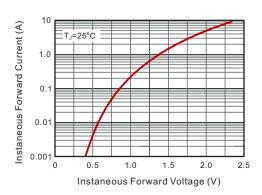


Fig.6 Maximum Non-Repetitive Peak Forward Surage Current

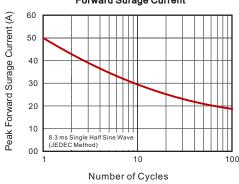


Fig.3 Typical Reverse Characteristics

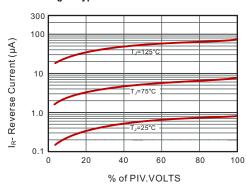
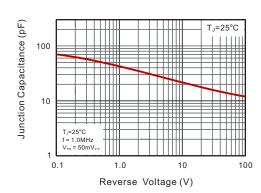
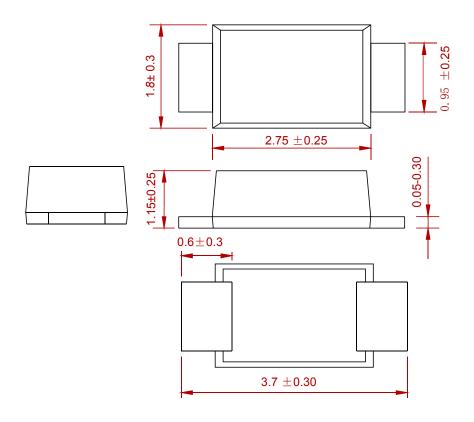


Fig.5 Typical Junction Capacitance



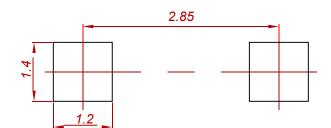


PACKAGE MECHANICAL DATA



Dimensions in millimeters

Suggested Pad Layout



Note:

- 1. Controlling dimension:in millimeters.
- 2.General tolerance:±0.05mm.
- 3. The pad layout is for reference purposes only.

REEL SPECIFICATION

P/N	PKG	QTY
ES2JW(E2H)	SOD-123FL	3000



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