MSKSEMI 美森科







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TSS



MOV



GDT



PIFF

ES2JW(E2J)

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	E2J
+	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%.

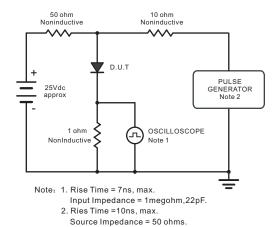
Parameter	Symbols	Value	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	600	V
Maximum RMS voltage	V _{RMS}	420	V
Maximum DC Blocking Voltage	V _{DC}	600	V
Maximum Average Forward Rectified Current at Tc = 125 °C	$I_{F(AV)}$	2	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	IFSM	50	А
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 =4 V_r = 1 MHz	Cj	30	pF
Maximum Reverse Recovery Time (1)	t _{rr}	35	ns
Typical Thermal (2) Resistance	RθJA R _{θJC}	75 22	°C/W
Operating and Storage Temperature Range	Tj, Tstg	-55 ~ +150	${\mathfrak C}$

⁽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



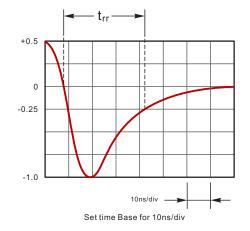


Fig.2 Maximum Average Forward Current Rating

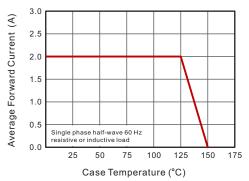


Fig.3 Typical Reverse Characteristics

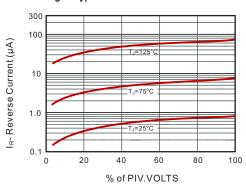


Fig.4 Typical Forward Characteristics

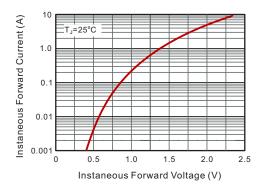


Fig.5 Typical Junction Capacitance

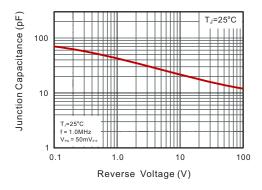
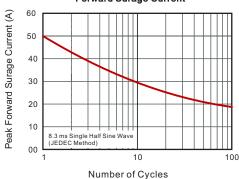
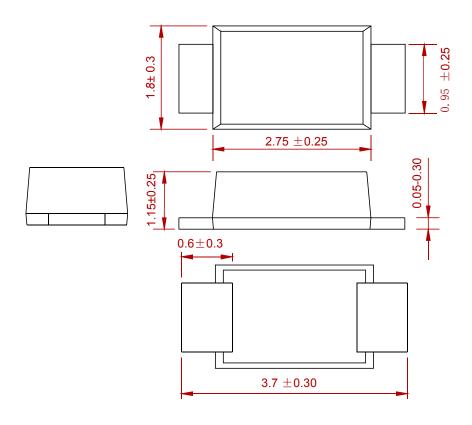


Fig.6 Maximum Non-Repetitive Peak Forward Surage Current



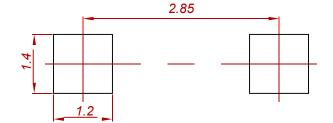


PACKAGE MECHANICAL DATA



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(E2J)	SOD-123FL	3000



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