

Surface Mount Superfast Recovery Rectifier Forward Current – 1 A

FEATURES

- For surface mounted applications
- Low profile package
- Glass Passivated Chip Junction
- Superfast reverse recovery time
- Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

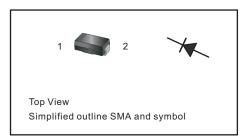
• Case: SMA

• Terminals: Solderable per MIL-STD-750, Method 2026

Approx. Weight: 0.055g / 0.002oz

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



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	ES1D	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	200	V
Maximum RMS voltage	V_{RMS}	140	V
Maximum DC Blocking Voltage	V _{DC}	200	V
Maximum Average Forward Rectified Current at T _L = 100 °C	I _{F(AV)}	1	А
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	30	Α
Maximum Forward Voltage at 1 A	V _F	1	V
Maximum DC Reverse Current Ta = 25 °C at Rated DC Blocking Voltage Ta =125 °C	I _R	5 100	μА
Typical Junction Capacitance at V _R =4V, f=1MHz	C _j	15	pF
Maximum Reverse Recovery Time (1)	t _{rr}	35	ns
Typical Thermal Resistance (2)	R _{0JA}	110	°C/W
Operating and Storage Temperature Range	T_{j}, T_{stg}	-55 ~ +150	°C

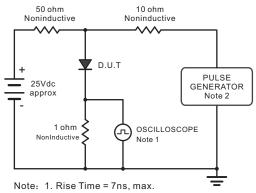
^(1) Measured with I_{F} = 0.5 A, I_{R} = 1 A, I_{rr} = 0.25 A.

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⁽ 2) P.C.B. mounted with 1.0 X 1.0" (2.54 X 2.54 cm) copper pad areas.



Fig.1 Reverse Recovery Time Characteristic And Test Circuit Diagram



- Input Impedance = 1megohm,22pF.
 - 2. Ries Time =10ns, max. Source Impedance = 50 ohms.

Fig.2 Maximum Average Forward Current Rating

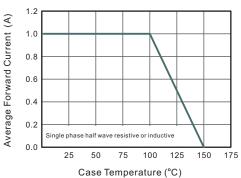


Fig.4 Typical Forward Characteristics

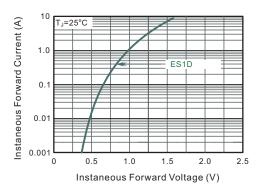
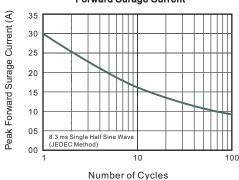


Fig.6 Maximum Non-Repetitive Peak Forward Surage Current



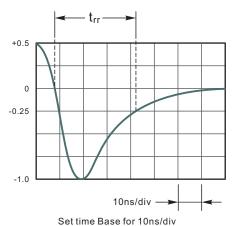


Fig.3 Typical Reverse Characteristics

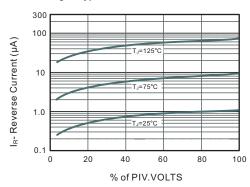
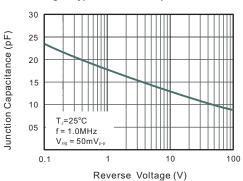


Fig.5 Typical Junction Capacitance



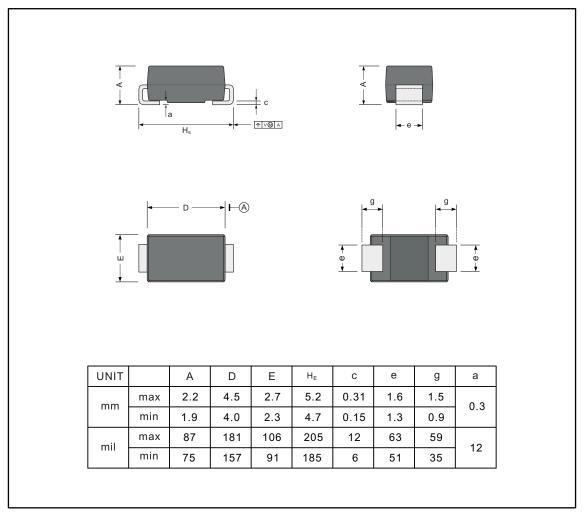
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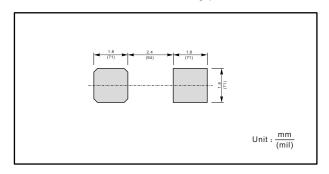
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMA



The recommended mounting pad size



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