## / Descriptions

1000V 1.0A SMA

Surface Mount Superfast Recovery Rectifier,Reverse Voltage:1000V,Forward Current:1.0A, SMA package.

## / Features

RoHS 2011/65/EU

Glass Passivated Chip Junction˘ Superfast reverse recovery time˘ Lead free in comply with EU R0HS 2011/65/EU directives˘ For surface mounted applications,HF product.

## / Applications

General purpose.

## / Equivalent Circuit



## / Pinning



| PIN | DESCRIPTION |
|---|---|
| 1 | Cathode |
| 2 | Anode |



## / Marking

See Marking Instructions.

| Parameter | Symbol | Rating | Unit |
|---|---|---|---|
| | | ES1M | |
| Maximum Repetitive Peak Reverse Voltage | $V_{RRM}$ | 1000 | V |
| Maximum RMS voltage | $V_{RMS}$ | 700 | V |
| Maximum DC Blocking Voltage | $V_{DC}$ | 1000 | V |
| Maximum Average Forward Rectified Current | $I_{F(AV)}$ | 1.0 | A |
| Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method) | $I_{FSM}$ | 30 | A |
| Typical Junction Capacitance at $V_R$ =4V,f=1MHz | $C_j$ | 20 | pF |
| Typical Thermal Resistance [1] | $R_{\theta JA}$ | 75 | ℃/W |
| Operating and Storage Temperature Range | $T_j$,$T_{stg}$ | -55~+150 | ℃ |

Note:
1、P.C.B. mounted with 1.0 X 1.0" (2.54 X 2.54 cm) copper pad areas.

## / Package Dimensions



## / Marking Instructions




ES1M
****

Note:

| | |
|---|---|
| ES1M | Product Type Code |
| **** | Lot No. Code, code change with Lot No |

## ( ) / Temperature Profile for IR Reflow Soldering(Pb-Free)

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| | | Note: |
| 1 | 150 180 60 90sec; | 1.Preheating:150~180 , Time:60~90sec. |
| 2 | 245±5 5±0.5sec; | 2.Peak Temp.:245±5 , Duration:5±0.5sec. |
| 3 | 2 10 /sec. | 3. Cooling Speed: 2~10 /sec. |

## / Resistance to Soldering Heat Test Conditions

| | | | |
|---|---|---|---|
| 260±5 | 10±1 sec. | Temp.:260±5 | Time:10±1 sec |