ES1M
Rev.A Aug.-2023

DATA SHEET

/ Descriptions

1000V 1.0A SMA

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

/ Features

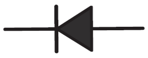
RoHS 2011/65/EU

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.

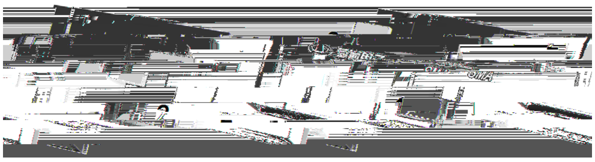
/ Applications

General purpose.

/ Equivalent Circuit



/ Pinning



PIN	DESCRIPTION
1	Cathode
2	Anode

The recommended mounting pad size

/ Marking

See Marking Instructions.

Parameter	Symbol	Rating ES1M	Unit
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	$I_{\text{Fˆ AV˜}}$	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	Ņ/W
Operating and Storage Temperature Range	T_j,T_{stg}	-55~+150	Ņ

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
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Note:

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

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

1	150 180	60 90sec;	Note: 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