/ 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
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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)

		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