ES2A~ES2J

ROHS

Surface Mount Superfast Recovery Rectifier

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

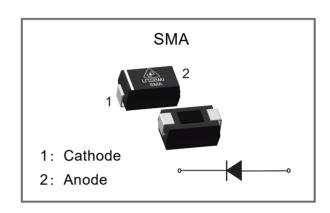
◆ Case: SMA

◆ Quantity Per Reel : 2,000pcs◆ Approx. Weight : 60mg / 0.002oz

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



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Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Parameter		Symbol	ES2A	ES2B	ES2C	ES2D	ES2E	ES2G	ES2J	Units
Maximum Repetitive Peak Reverse Voltage		VRRM	50	100	150	200	300	400	600	V
Maximum RMS voltage		VRMS	35	70	105	140	210	280	420	V
Maximum DC Blocking Voltage		VDC	50	100	150	200	300	400	600	V
Maximum Average Forward Rectified Current at Tc =125℃		lf(AV)	2.0							А
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load		IFSM	50						А	
Maximum Forward Voltage at at	aximum Forward Voltage at at 2A		1.0 1.25 1.6			1.68	V			
Maximum DC Reverse Current at Rated DC Reverse Voltage	Ta=25℃	lR	5.0					μA		
	Ta=125℃	lR				100				μΛ
Typical Junction Capacitance at VR=4V, f=1MHz		Cj	40							pF
Maximum Reverse Recovery Time (1)		trr	35						nS	
Typical Thermal Resistance (2)		$R_{\theta JA}$	60						%/W	
Operating and Storage Temperature Range		TJ,Tstg	-55 ~ + 150							c

Note: (1) Measured with IF=0.5A, IR=1A, Irr=0.25A.

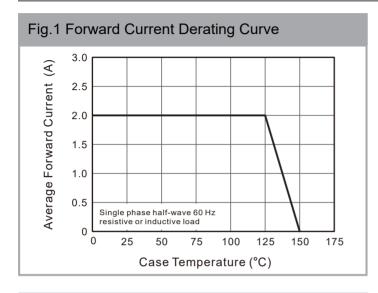
(2) P.C.B. mounted with 1.0" X 1.0" (2.54 X 2.54cm) copper pad areas.

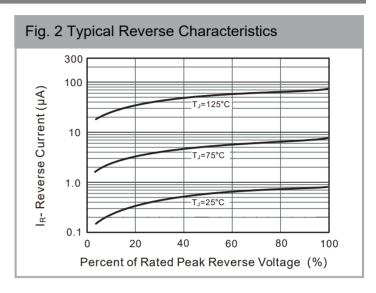


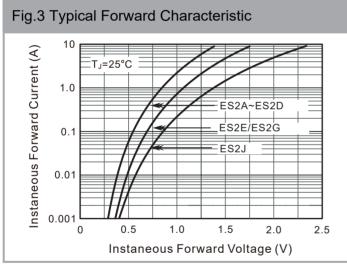
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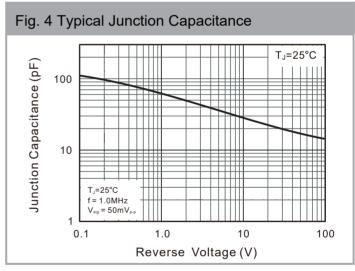
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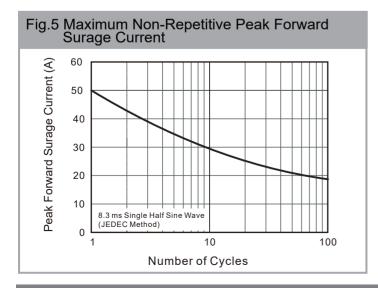
Electrical Characteristics Curves









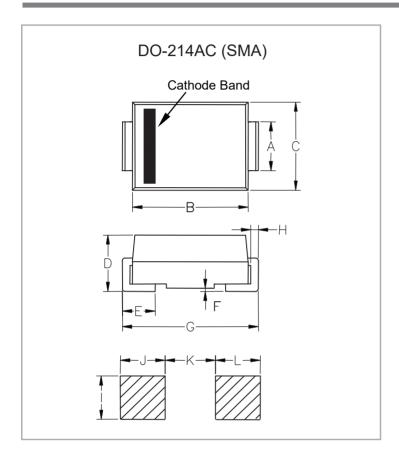




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Package Outline & Dimensions



Dimensions	Inc	hes	Millimeters			
Difficusions	Min.	Max.	Min.	Max.		
А	0.049	0.064	1.230	1.630		
В	0.162	0.179	4.10	4.550		
С	0.099	0.109	2.510	2.760		
D	0.077	0.089	1.960	2.260		
Е	0.030	0.060	0.750	1.510		
F	-	0.008	-	0.203		
G	0.192	0.206	4.87	5.220		
Н	0.006	0.012	0.152	0.305		
I	0.070	ı	1.800	-		
J	0.082	1	2.100	-		
K	-	0.090	-	2.300		
L	0.082	-	2.100	-		

Marking

Type Number	ES2A	ES2B	ES2C	ES2D	ES2E	ES2G	ES2J
Making	ES2A	ES2B	ES2C	ES2D	ES2E	ES2G	ES2J



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