50V~600V 3.0A SMB

Surface Mount Superfast Recovery Rectifier,Reverse Voltage:50 to600V,Forward Current:3.0A, SMB package.

2011/65/EU RoHS

Glass Passivated Chip Jun tion,Fast reverse recovery time Lead free in comply with EU R HS 2011/65/EU directives,For surface mounted applications,Halogen free product.

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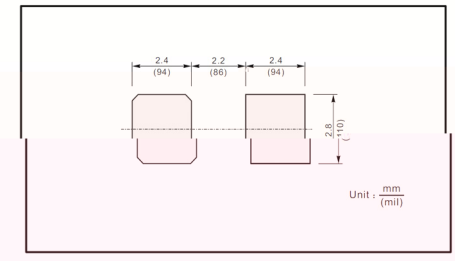
General purpose.





PIN	DESCRIPTION
1	Cathode
2	Anode

The recommended mounting pad size



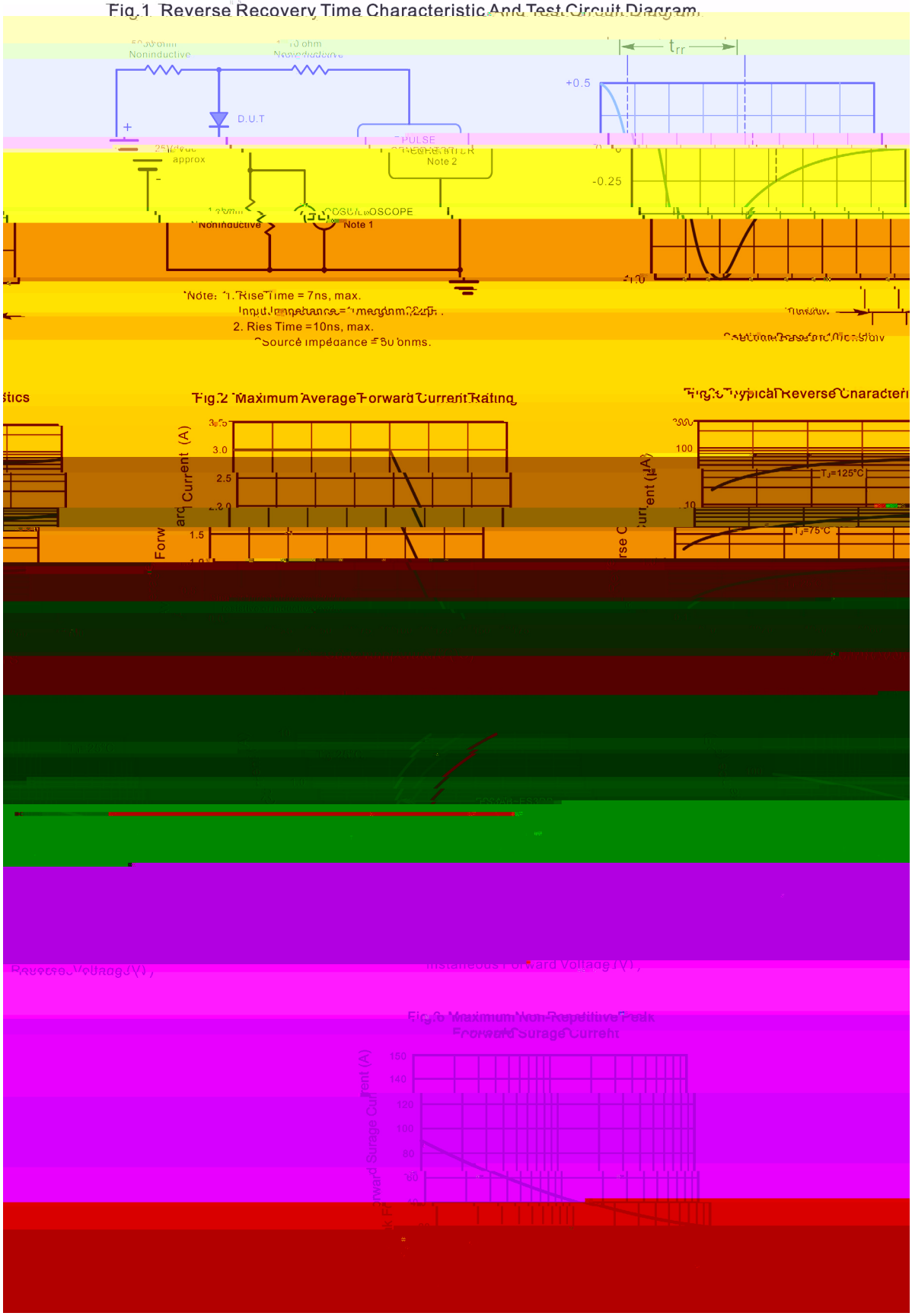
See Marking Instructions

Parameter	Symbol	Rating							Unit
		ES3AB	ES3BB	ES3CB	ES3DB	ES3EB	ES3GB	ES3JB	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	150	200	300	400	600	V
Maximum RMS voltage	V_{RMS}	35	70	105	140	210	280	420	V
Maximum DC Blocking Voltage	V_{DC}	50	100	150	200	300	400	600	V
Maximum Average Forward Rectified Current at T_c= 100	$I_{F\ AV}$	3.0							A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I_{FSM}	90							A
Typical Junction Capacitance at V_R =4V, f=1MHZ	C_j	45							pF
Typical Thermal Resistance (1)	$R_{\theta JA}$	50							/W
	$R_{\theta JC}$	16							
Operating and Storage Temperature Range	T_j,T_{stg}	-55~+150							

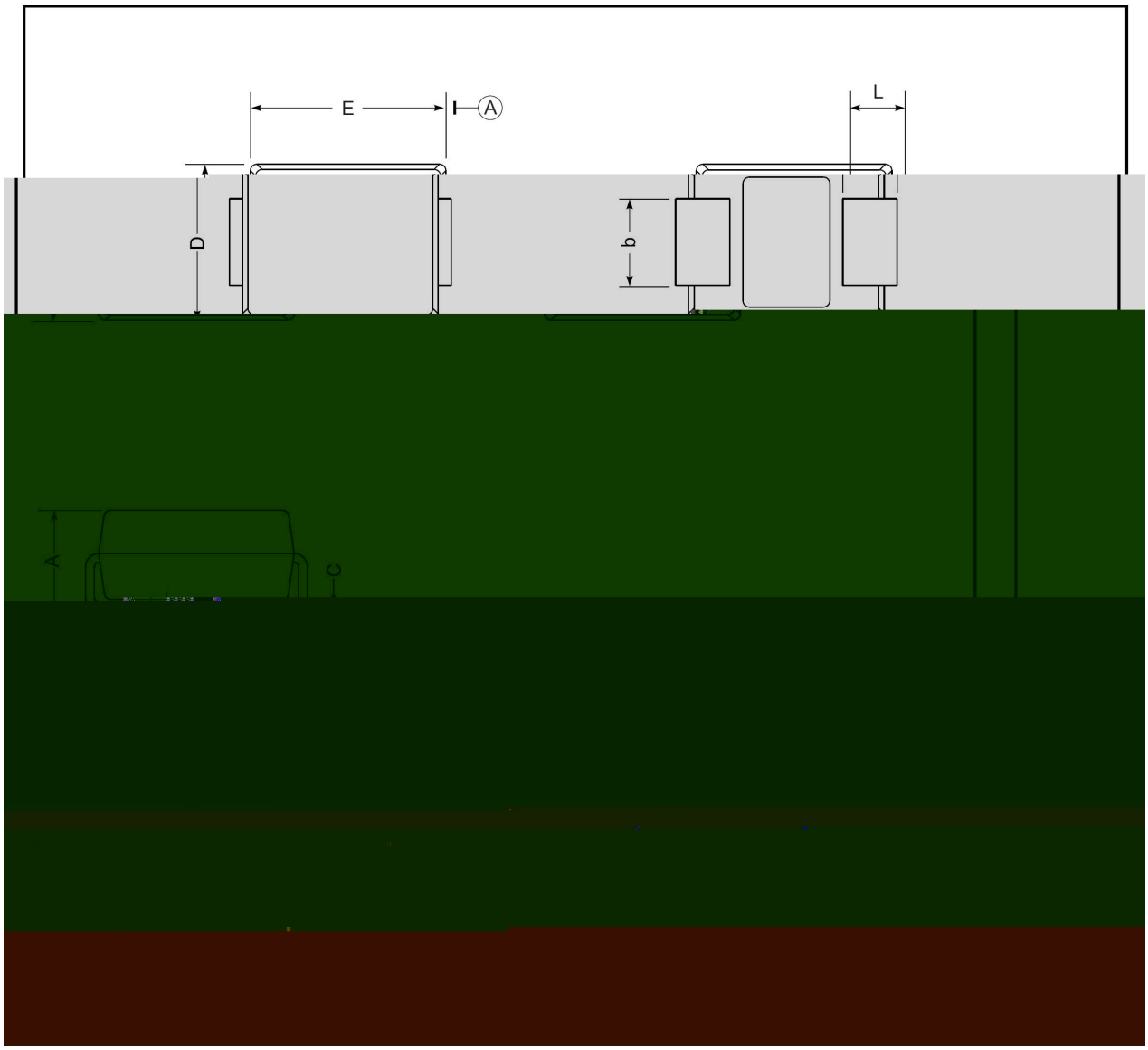
Note:

(1 P.C.B. mounted with 2.0 X 2.0" (5 X 5 cm) copper pad areas.

Parameter	Symbol	Test Conditions	Rating							Unit
			ES3AB	ES3BB	ES3CB	ES3DB	ES3EB	ES3GB	ES3JB	
Maximum Forward Voltage	V_F	I_F=3.0A	1.0				1.25		1.68	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	T_a=25	5.0							μA
		T_a=125	100							μA
Maximum Reverse Recovery Time	t_{rr}	I_F=0.5A I_R=1.0A I_{rr}=0.25A	35							ns

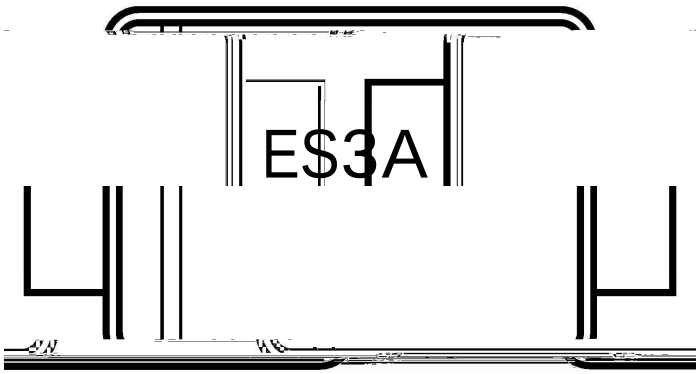

Fig.1 Reverse Recovery Time Characteristic And Test Circuit Diagram
Noninductive
D.U.T
PULSE
Note 2
Note 1
+0.5
-0.25
Note: 1. Rise Time = 7ns, max.
2. Ries Time =10ns, max.
Fig.2 Maximum Average Forward Current Rating
Forward Current (A)
3.0
2.5
1.5
Fig.3 Typical Reverse Characteri
100
Tj=125°C
Tj=75°C
Reverse Voltage(V)
Instaneous Forward Voltage(V)
Fig.4 Maximum Non-Repetitive Peak
Forward Surage Current
Forward Surage Current (A)
150
140
120
100
80
60

SMB



Marking


Type number
Marking code
FS36A
FS36B
FS36C
FS36D
FS36E
FS36F
FS36G
FS36H
FS36J
FS36K
FS36L
FS36M
FS36N
FS36P
FS36Q
FS36R
FS36S
FS36T
FS36U
FS36V
FS36W
FS36X
FS36Y
FS36Z
FS3A
FS3B
FS3C
FS3D
FS3E
FS3F
FS3G
FS3H
FS3J
FS3K
FS3L
FS3M
FS3N
FS3P
FS3Q
FS3R
FS3S
FS3T
FS3U
FS3V
FS3W
FS3X
FS3Y
FS3Z



ES3A

1 * 3 *

Note:

ES3A Product Type Code

Lot No. Code The 1st * means:YM Code The last 3 * means:little Lot No Code

Rev.A Dec.-2017