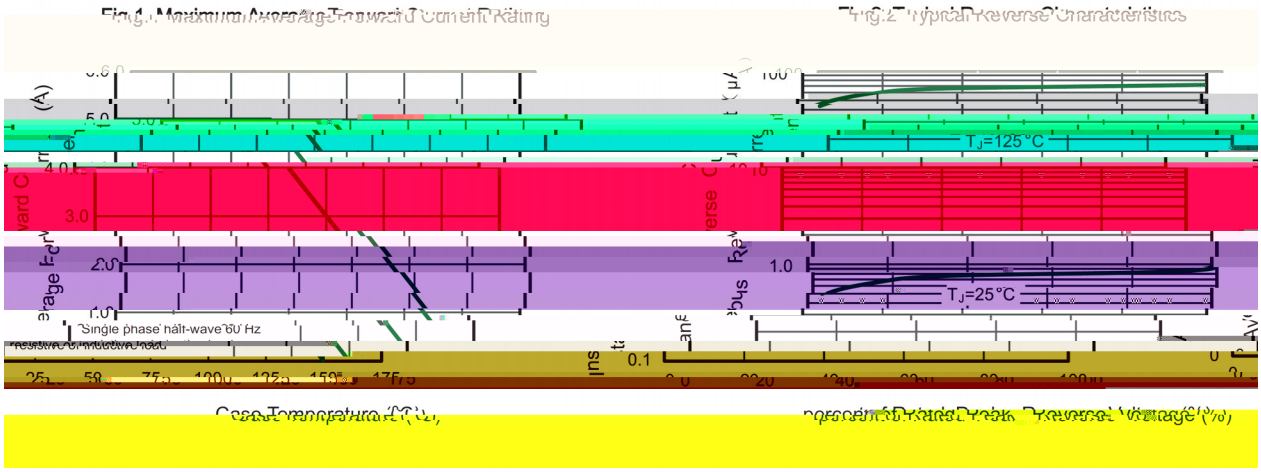
Parameter	Symbol	Rating							Unit
		RS5ABF	RS5BBF	RS5DBF	RS5GBF	RS5JBF	RS5KBF	RS5MBF	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ Fig.1	$I_{F\ AV}$	5							A
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	150							A
Peak Forward Surge Current,1.0ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	300							A
I^2t Rating for fusing ($3ms \le t \le 8.3ms$)	I^2t	93.3							A^2s
Typical Junction Capacitance(1)	C_j	38					70		pF
Typical Thermal Resistance (2)	$R_{\theta JA}$ $R_{\theta JC}$ $R_{\theta JL}$	42 10 15							/W
Operating and Storage Temperature Range	T_j,T_{stg}	-55~+150							

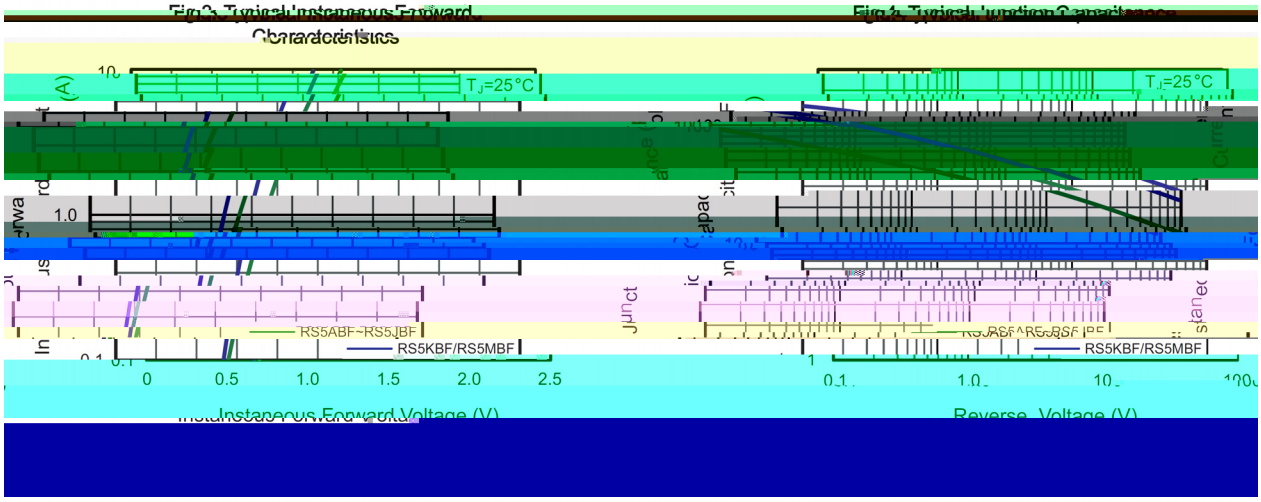
Note:

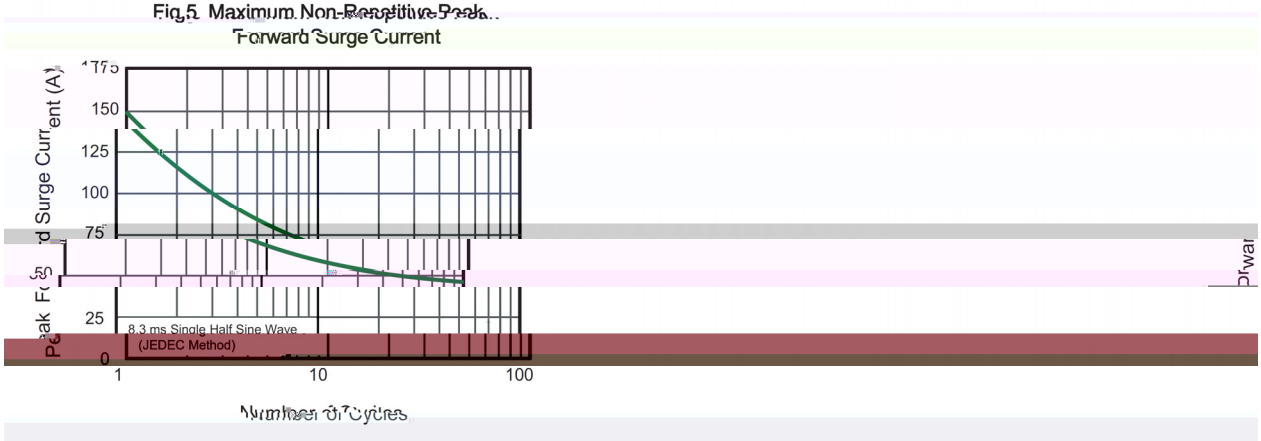
1 Measured at 1 MHz and applied reverse voltage of 4V D.C

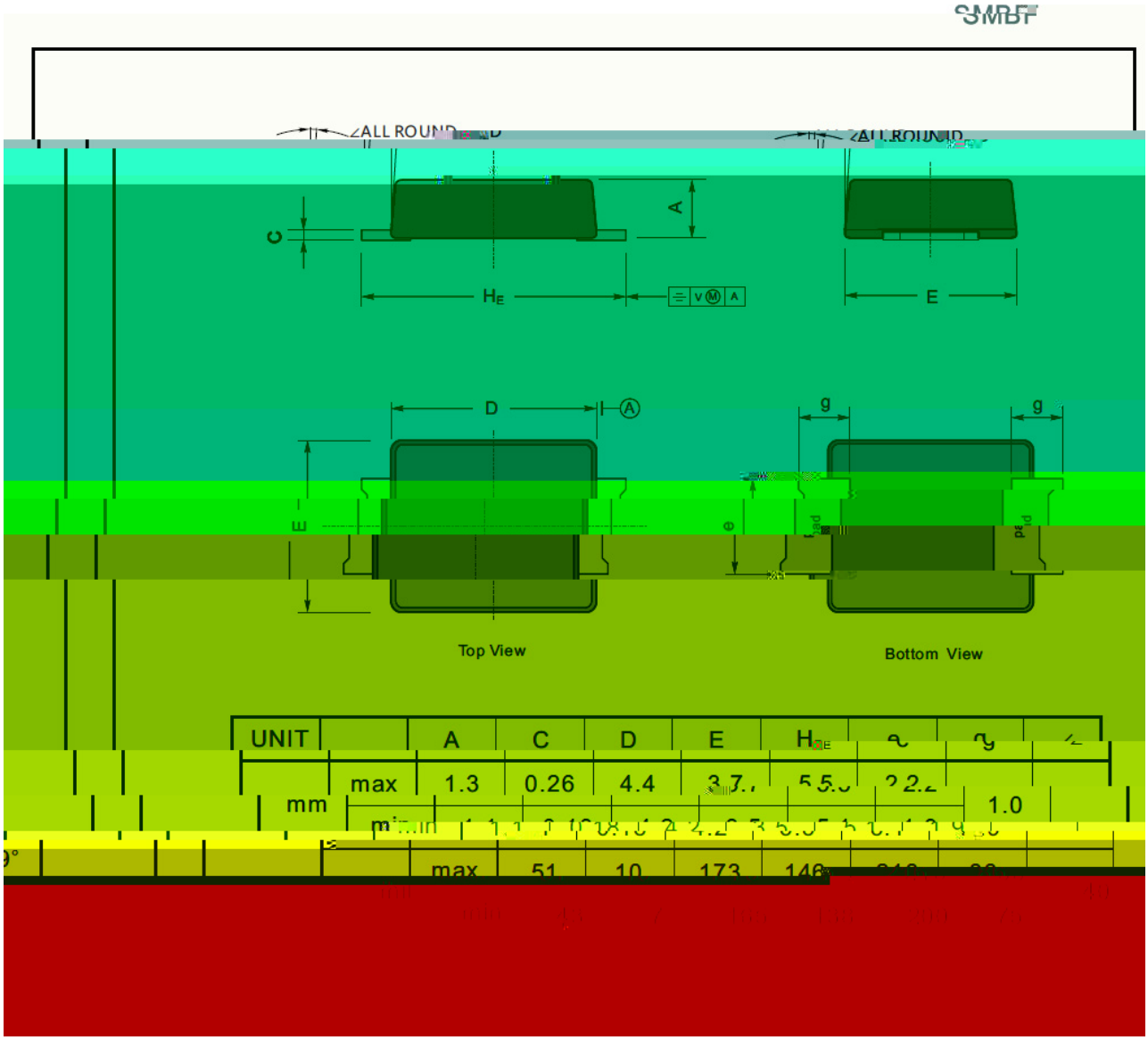
2 P.C.B. mounted with 1.5" X 1.5" (3.81 X 3.81 cm) copper pad areas.

Parameter	Symbol	Test Conditions	Rating							Unit
			RS5ABF	RS5BBF	RS5DBF	RS5GBF	RS5JBF	RS5KBF	RS5MBF	
Maximum Forward Voltage	V_F	I_F=5A	1.3							V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	T_a=25	10							μA
		T_a=125	150							μA
Maximum Reverse Recovery Time	t_{rr}	I_F=0.5A I_R=1A I_{rr}=0.25A	150				250	500		ns


Single phase half-wave 60 Hz
Resistive or Inductive load
Case Temperature (°C)
T_J=125°C
T_J=25°C
Reverse Voltage (%)


T_J=25°C
RS5ABF~RS5JBF
RS5KBF/RS5MBF
Instaneous Forward Voltage (V)
Reverse Voltage (V)


Forward Surge Current
8.3 ms Single Half Sine Wave
(JEDEC Method)
Number of Cycles


SMBF
ALL ROUND
ALL ROUND
A
C
H_E
E
D
g
g
Top View
Bottom View
UNIT
A
C
D
E
H_E
mm
max
1.3
0.26
4.4
1.0
max
51
10
173

R5AB

****

Note:

R5AB	Product Type Code
****	Lot No. Code, code change with Lot No

Type number	Marking code
RS5ABF	R5AB
RS5BBF	R5BB
RS5DBF	R5DB
RS5GBF	R5GB
RS5JBF	R5JB
RS5KBF	R5KB
RS5MBF	R5MB

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.

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

/ REEL

Package Type	Units					Dimension		(unit mm³)
	Units/Reel /	Reels/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Reel	Inner Box	Outer Box
SMBF	5,000	2	10,000	7	70,000	13 ×12	336X336X40	380X335X366