5 é / Descriptions

n µ É xRK Ô Â … v 8 â ’ k F g 9 y < d < k 3 g v y ' k 9 3 (/ xož

Surface Mount Schottky Barrier Rectifiers, Reverse Voltage y 20 to 200V ,Forward Current:5.0A ,SMB package.

¤ ª / Features

z ô k ä | ä k ä 3 g ~ … v k — ` … ` , (8 U . 9 6 X + ; k n µ É xož —)í D }ož

Low power loss, high efficiency k High forward surge current capability, Lead free in comply with EU RoHS 2011/65/EU directives, For surface mounted applications. HF product.

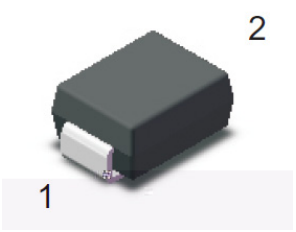
Đ ÷ / Applications

%² " (

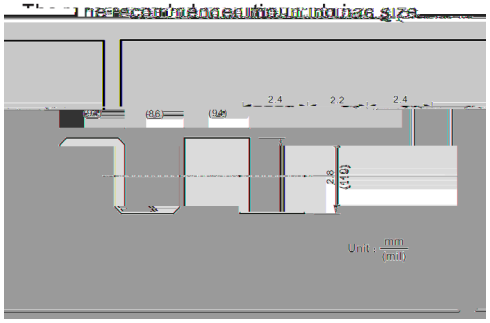
General purpose.

Ã W] Ô · / Equivalent Circuit

• Û - æ / Pinning



PIN	DESCRIPTION
1	Cathode
2	Anode



, M V / Marking

• - ~ ª ¢ož See Marking Instructions.

Ã a ? d / Absolute Maximum Ratings(Ta=25 ;)

@ ƒ Parameter	… Z Symbol	ƒ › Rating								% y Unit
		SS52B	SS54B	SS56B	SS58B	SS510B	SS512B	SS515B	SS520B	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	40	60	80	100	120	150	200	V
Maximum RMS voltage	V_{RMS}	14	28	42	56	70	84	105	140	V
Maximum DC Blocking Voltage	V_{DC}	20	40	60	80	100	120	150	200	V
Maximum Average Forward Rectified Current	$I_{F\ ÄAV\ Å}$	5.0								A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	150								A
Typical Junction Capacitance)É1)É	C_j	500		300						pF
Typical Thermal Resistance)É2)É	$R_{\ JA}$	50								/W
Operating and Storage Temperature Range	T_j,T_{stg}	-55~+150								

Note:

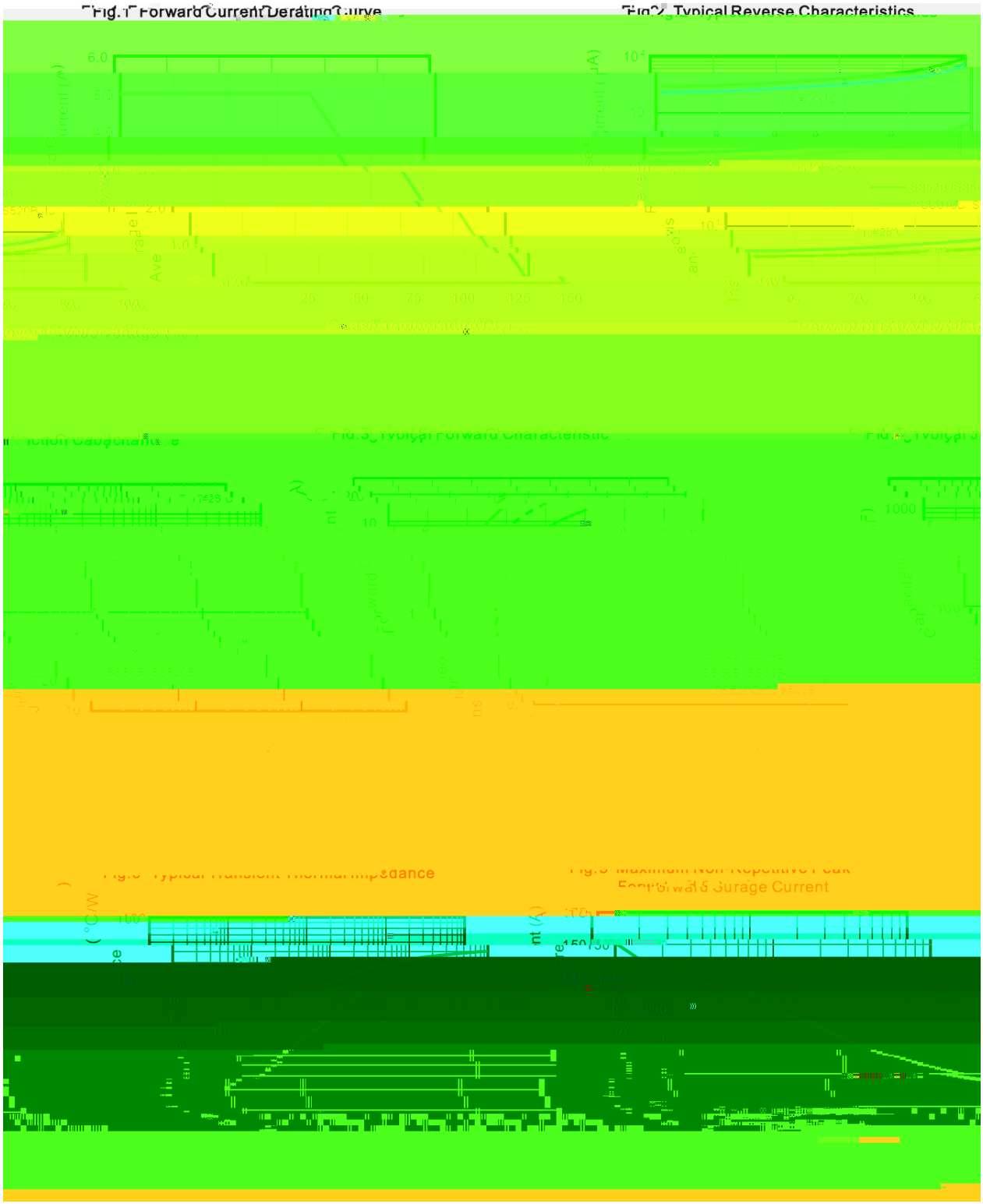
1)ËMeasured at 1MHz and applied reverse voltage of 4 V D.C.

2)ËP.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

Ô4ì × ? d / Electrical Characteristics(Ta=25 ;)

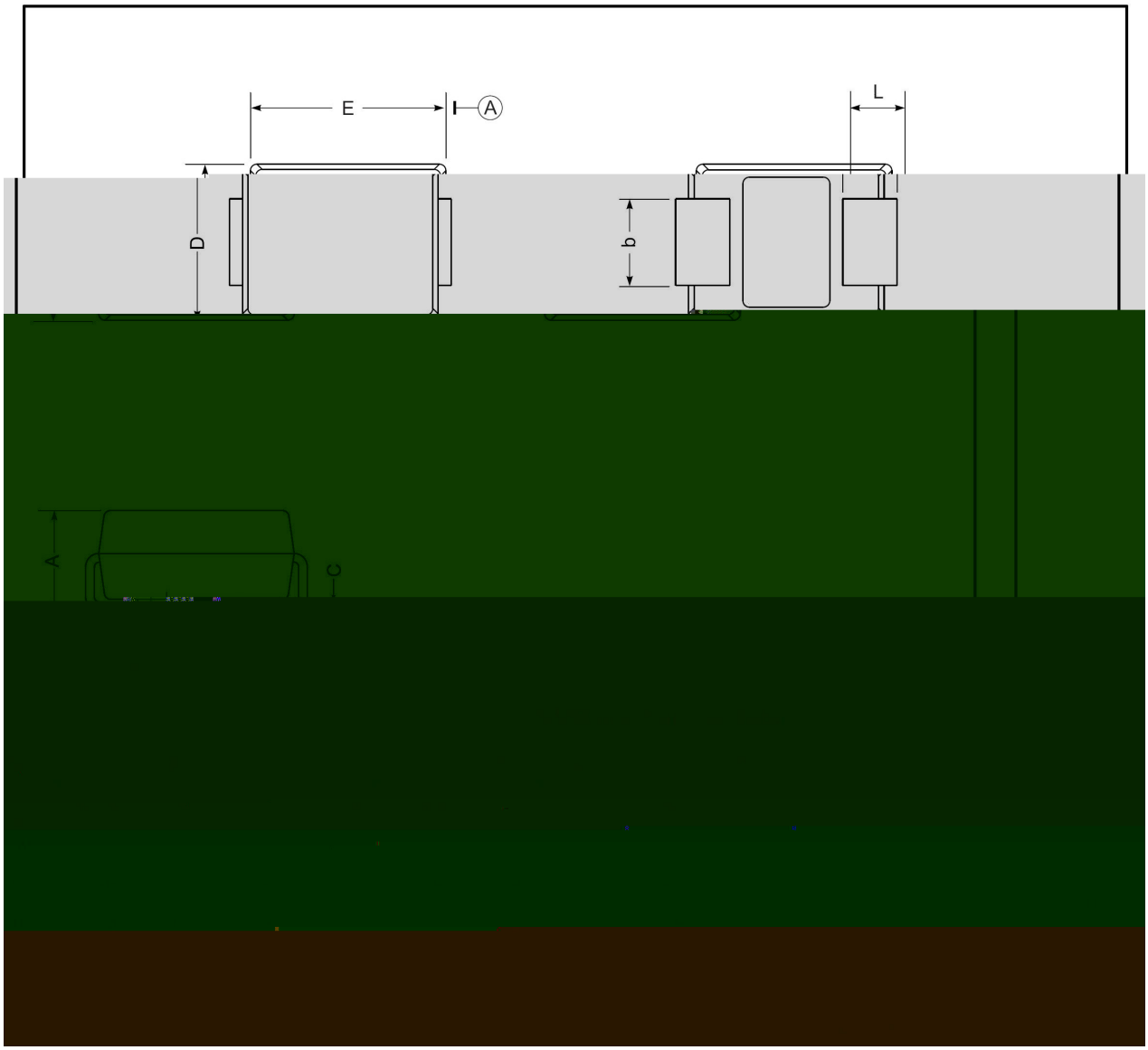
@ ƒ Parameter	… Z Symbol	y ¡ Ú ^ Test Conditions	D Rating								% y Unit
			SS52B	SS54B	SS56B	SS58B	SS510B	SS512B	SS515B	SS520B	
Maximum Instantaneous Forward Voltage	V_F	I_F=5.0A	0.55		0.70		0.85				V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	T_a=25	1.0		0.3						mA
		T_a=100	5.0		25						mA

Ô ? d • Ž ¢ / Electrical Characteristic Curve

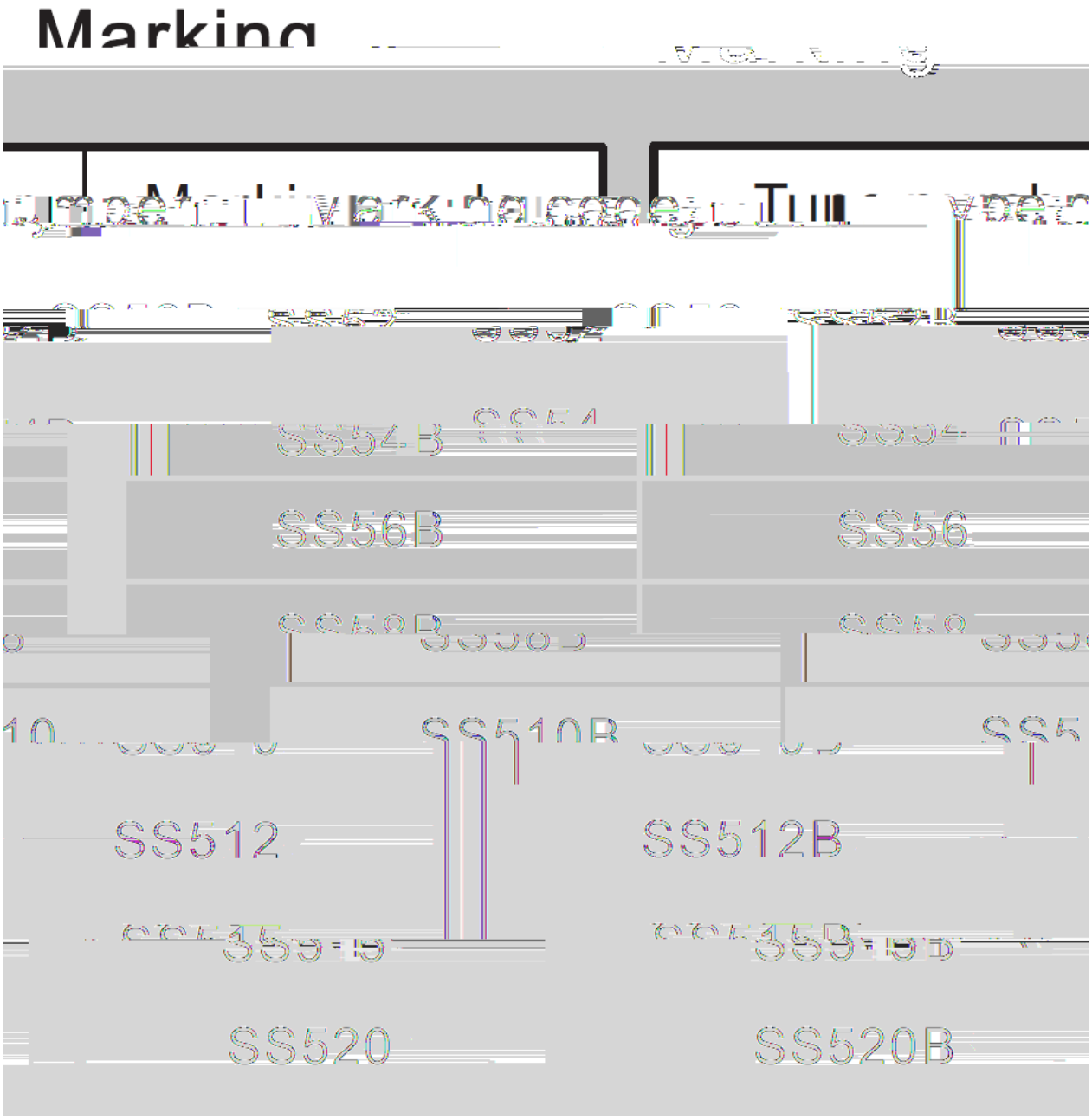


Ø ¤ =) ¢ / Package Dimensions

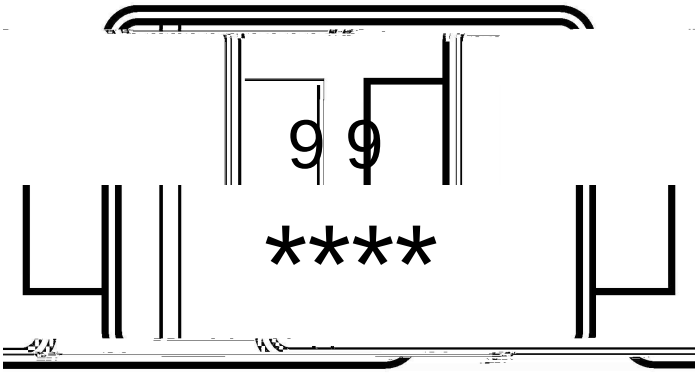
SMB



, M y ƒ / Marking Instructions



, M y ƒ / Marking Instructions



ª ¢ y

9 9 y º Z W A

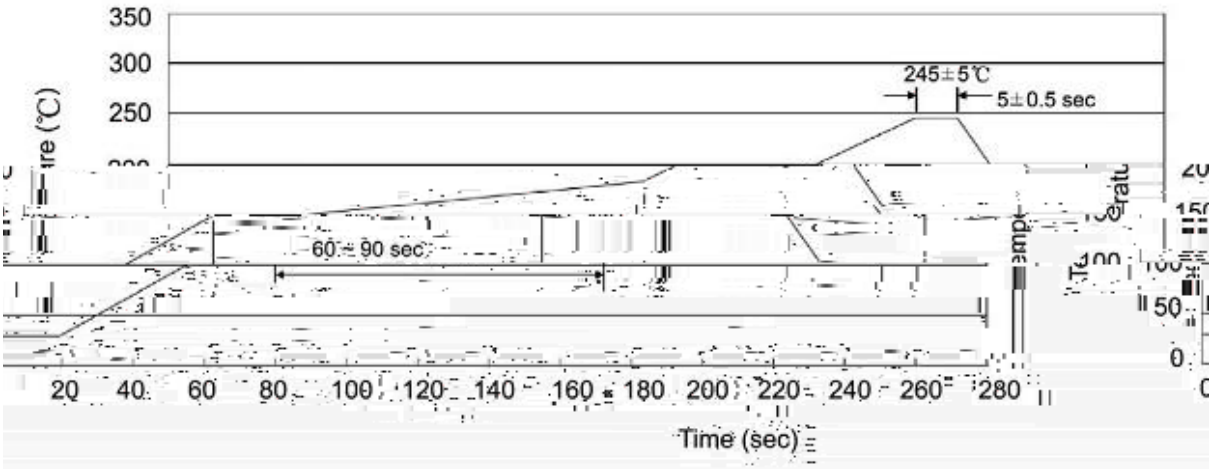
**** y ÿ D Z AÇ A k † v Ã W A k e µ ¢ Ã 4 Z W A

Note:

9 9 y Product Type Code

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

š WD t ... • Ž ¢ (x /) / : K S V K X G Z [X K 6 X U L O R K L U X / 8 8 K L R U] 9 U R J K X O T M 6



ª ¢ y

1o• Ä ½ “ † 150 ½180 - k ž • 60 ½90sec;

2o• Q › “ † 245 r5 - k ž • 4 Ò 5 r0.5sec;

3o•D N ò i Ò 0 , † 2 ½10 - /sec.

Note:

1.Preheating:150~180 - , Time:60~90sec.

2.Peak Temp.:245 r5 - , Duration:5 r0.5sec.

3. Cooling Speed: 2~10 - /sec.

ÂD /Cã p ¯ »] / Resistance to Soldering Heat Test Conditions

“ † y 260 r5 -	ž • y 10 r1 sec.	Temp.:260 r5 -	Time:10 r1 sec

G P á / Packaging SPEC.

2 & x / REEL

Package Type
ß m ù ´