

## Surface Mount Glass Passivated Fast Recovery Rectifier

SMAF(eSGB)			Features								
			<ul> <li>RC</li> <li>Gla</li> <li>Hig</li> <li>Mae</li> <li>LF</li> <li>So</li> <li>Cc</li> <li>an</li> </ul>	DHS co ass pa gh forv eet MS maxir maxir Ider d ompon d WEI	issivat ward s SL leve mum p ip 260 ent in EE 200	ed ch urge c el 1, pe beak o °C / 4 accore 02/96/	capabi er J-S <sup>-</sup> f 250 ° l0S dance WC	rD-02 ⁰C	DHS 20	002/95	FB 5/EC
Primary characteristics			App	licatio	ons						
I <sub>F(AV)</sub>	1A Ideal for ac-to-dc bridge full wave rectification su						uck as				
V <sub>RRM</sub>	50V t	o 1000V	SMP	S, hon	ne app	olianes	s, offic	e equi	pmen	t, indu	srial
I <sub>FSM</sub>		30A	auton	nation	applic	catios					
I <sub>RM</sub>		5uA	11		-						
V <sub>FM</sub> at I <sub>F</sub> =1A		.3V	Mec	hanic	al da	Ita					
$T_J$ max.		.5v 50 °C		Mechanical data <ul> <li>SMAF(eSGB)</li> </ul>							
Maximum rating (Ta	a=25ºC เ	unless othe	• Mo • Re	ounting	g Torq nendeo	d Torq	ue:5.7	cm-k		lbs)ma ches-lk	
Maximum rating (Ta Parameter	a=25°C เ	unless othe	• Mo • Re	ounting comm	g Torq nendeo )	ue:100 d Torq <b>SM/</b>	ue:5.7 <b>AF(eS</b>	Cm-kg	g(5 ind	ches-lk	
		unless othe	Mc     Re erwise r	ounting	g Torq nendeo	ue:100 d Torq	ue:5.7	cm-k			os)
Parameter		unless othe	• Mo • Re erwise r Sym	ounting comm noted LF1	g Torq nended ) LF2	ue:100 d Torq SM/ LF3	ue:5.7 AF(eS LF4	GB)	g(5 ind	ches-lk	Unit
Parameter Max. repetitive peak revers		unless othe	Mc     Re     Re     Re     VRRM	noted LF1	Torq nended LF2 100	ue:100 d Torq SMA LF3 200	ue:5.7	Cm-kg GB) LF5 600	g(5 ind LF6 800	LF7	Unit
Parameter Max. repetitive peak revers Max. RMS reverse voltage	e voltage	unless othe	Mc     Kerwise r     Sym     VRRM     VRMS	LF1 50 35	y Torq nended ) LF2 100 70	ue:100 d Torq SM/ LF3 200 140	ue:5.7	<b>GB)</b> <b>LF5</b> 600 420	g(5 ind LF6 800 560	LF7 1000 700	Unit V V
Parameter Max. repetitive peak revers Max. RMS reverse voltage Max. DC blocking voltage	e voltage ent d surge curr		Mc     Kerwise r      Sym     VRRM     VRMS     VDC	LF1 50 35	y Torq nended ) LF2 100 70	ue:100 d Torq SM/ LF3 200 140	ue:5.7 <b>\F(eS</b> <b>LF4</b> 400 280 400	<b>GB)</b> <b>LF5</b> 600 420	g(5 ind LF6 800 560	LF7 1000 700	Unit V V V V
Parameter Max. repetitive peak revers Max. RMS reverse voltage Max. DC blocking voltage Max. average forward curre Non-repetitive peak forward	e voltage ent d surge curr		Mc     Ke     Ke     Ke     Ke     Ke     Ke     Ke     Ke     VRM     VRM     VRMS     VDC     IF(AV)     Ke     Ke	LF1 50 35	y Torq nended ) LF2 100 70	ue:100 d Torq SM/ LF3 200 140	ue:5.7 <b>LF4</b> 400 280 400 1	<b>GB)</b> <b>LF5</b> 600 420	g(5 ind LF6 800 560	LF7 1000 700	Unit V V V A
Parameter Max. repetitive peak revers Max. RMS reverse voltage Max. DC blocking voltage Max. average forward curre Non-repetitive peak forward 8.3ms single half-sine-wave	e voltage ent d surge curr e	rent	Mc     Kerrender     Kerrender     Kerrender     Sym     Vrrms     Vrms     Vpc     IF(AV)     IFSM	LF1 50 35	y Torq nended ) LF2 100 70	ue:100 d Torq SM/ LF3 200 140 200	ue:5.7 <b>F(eS</b> <b>LF4</b> 400 280 400 1 30	Cm-kg GB) LF5 600 420 600	g(5 ind LF6 800 560	LF7 1000 700	Unit V V V A A
Parameter Max. repetitive peak revers Max. RMS reverse voltage Max. DC blocking voltage Max. average forward curre Non-repetitive peak forward 8.3ms single half-sine-wave Rating for fusing(t<8.3ms)	e voltage ent d surge curr e d voltage dr	rent	Mc     Kerein      Kerein	LF1 50 35	y Torq nended ) LF2 100 70	ue:100 d Torq SM/ LF3 200 140 200	ue:5.7 <b>AF(eS</b> <b>LF4</b> 400 280 400 1 30 3.7	Cm-kg GB) LF5 600 420 600	g(5 ind LF6 800 560	LF7 1000 700	Unit V V V A A A <sup>2</sup> sec V
Parameter Max. repetitive peak revers Max. RMS reverse voltage Max. DC blocking voltage Max. average forward curre Non-repetitive peak forward 8.3ms single half-sine-wave Rating for fusing(t<8.3ms) Max. instantaneous forward	e voltage ent d surge curr e d voltage dr e current	rent	Mc     Kerwise r      Sym     VRRM     VRMS     VDC     IF(AV)     IFSM     I <sup>2</sup> t	LF1 50 35	y Torq nended ) LF2 100 70	ue:100 d Torq SM/ LF3 200 140 200	ue:5.7 <b>AF(eS</b> <b>LF4</b> 400 280 400 1 30 3.7 1.3 (1A	Cm-kg GB) LF5 600 420 600	g(5 ind LF6 800 560	LF7 1000 700	Unit V V V A A A <sup>2</sup> sec
Parameter Max. repetitive peak revers Max. RMS reverse voltage Max. DC blocking voltage Max. average forward curre Non-repetitive peak forward 8.3ms single half-sine-wave Rating for fusing(t<8.3ms) Max. instantaneous forward Max. instantaneous reverse	e voltage ent d surge curr e d voltage dr e current e	rent op per diode Ta=25 °C	Mc     Kerein      Kerein	LF1 50 35	y Torq nended ) LF2 100 70	ue:100 d Torq SM/ LF3 200 140 200	ue:5.7 AF(eS LF4 400 280 400 1 30 3.7 1.3 (1A 5	(Cm-kg (Cm-kg (Cm-kg)) (Cm-kg))))))))))))))))))))))))))))))))))))	g(5 ind LF6 800 560	LF7 1000 700	Unit V V V A A A <sup>2</sup> sec V
Parameter Max. repetitive peak revers Max. RMS reverse voltage Max. DC blocking voltage Max. average forward curre Non-repetitive peak forward 8.3ms single half-sine-wave Rating for fusing(t<8.3ms) Max. instantaneous forward Max. instantaneous reverse at rated DC blocking voltag	e voltage ent d surge curr e d voltage dr e current e	rent op per diode Ta=25 °C	Mc     Kerrender     Kerr	LF1 50 35	y Torq nended ) LF2 100 70	ue:100 d Torq SM/ LF3 200 140 200	ue:5.7 <b>AF(eS</b> <b>LF4</b> 400 280 400 1 30 3.7 1.3 (1A) 5 50	7 cm-k GB) LF5 600 420 600	g(5 ind LF6 800 560	LF7 1000 700	DS) Unit V V V A A A A <sup>2</sup> Sec V u A
Parameter Max. repetitive peak revers Max. RMS reverse voltage Max. DC blocking voltage Max. DC blocking voltage Max. average forward curre Non-repetitive peak forward 8.3ms single half-sine-wave Rating for fusing(t<8.3ms) Max. instantaneous forward Max. instantaneous forward at rated DC blocking voltag Operating junction tempera	e voltage ent d surge curr e d voltage dr e current e ture	rent op per diode Ta=25 °C Ta=125 °C	Mc     Kerrender     Kerrender     Kerrender     Kerrender     Kerrender     Kerrender     Kerrender     Kerrender     Vrems     Vrems     Vrems     Vrems     Vrems     Irsm     Irsm     Irsm     Tj	LF1 50 35	g Torq nended 100 70 100	ue:100 d Torq SM/ LF3 200 140 200	ue:5.7 <b>AF(eS</b> <b>LF4</b> 400 280 400 1 30 3.7 1.3 (1A 5 50 5 ~ +1!	7 cm-k GB) LF5 600 420 600	g(5 ind <b>LF6</b> 800 560 800	LF7 1000 700	DS) Unit V V V A A A <sup>2</sup> Sec V µA °C

#### Notes:

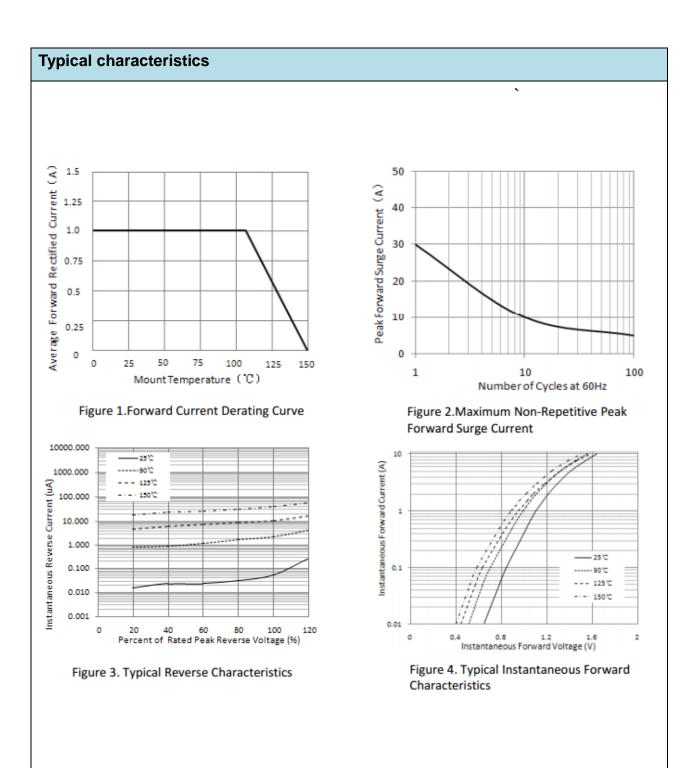
1 The thermal resistance from junction to mount, mounted on P.C.B with 8x8mm copper pads, 2 OZ, FR4 PCB

2. Reverse recovery test conditions: IF=0.5A, IR=1.0A, Irr=0.25A



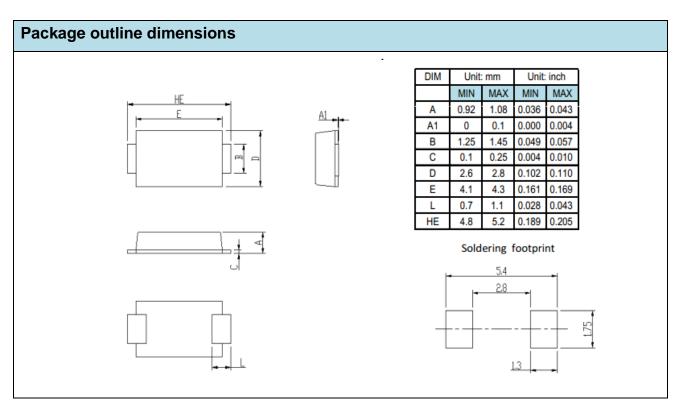
### **Surface Mount Glass Passivated Fast Recovery Rectifier**

Ordering information (Example)								
PREFERRED	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE				
LF7								





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