

Surface Mount Glass Passivated Fast Recovery Rectifier

SMAF(eSGB)			Features								
			 RC Gla Hig Mae LF So Cc an 	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 ⁻ f 250 ° l0S dance WC	rD-02 ⁰C	DHS 20	002/95	FB 5/EC
Primary characteristics			App	licatio	ons						
I _{F(AV)}	1A Ideal for ac-to-dc bridge full wave rectification su						uck as				
V _{RRM}	50V t	o 1000V	SMP	S, hon	ne app	olianes	s, offic	e equi	pmen	t, indu	srial
I _{FSM}		30A	auton	nation	applic	catios					
I _{RM}		5uA	11		-						
V _{FM} at I _F =1A		.3V	Mec	hanic	al da	Ita					
T_J max.		.5v 50 °C		Mechanical data SMAF(eSGB) 							
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 SM/	ue:5.7 AF(eS	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	GB) LF5 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 \F(eS LF4 400 280 400	GB) LF5 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 LF4 400 280 400 1	GB) LF5 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 F(eS LF4 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 AF(eS LF4 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 ² 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 ² t	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	Cm-kg GB) LF5 600 420 600	g(5 ind LF6 800 560	LF7 1000 700	Unit V V V A A A ² 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 (Cm-kg (Cm-kg (Cm-kg (Cm-kg (Cm-kg (Cm-kg (Cm-kg (Cm-kg (Cm-kg (Cm-kg (Cm-kg (Cm-kg (Cm-kg (Cm-kg (Cm-kg (Cm-kg (Cm-kg (Cm-kg (Cm-kg))))))))))))))))))))))))))))))))))))	g(5 ind LF6 800 560	LF7 1000 700	Unit V V V A A A ² 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 AF(eS LF4 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 ² 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 AF(eS LF4 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 LF6 800 560 800	LF7 1000 700	DS) Unit V V V A A A ² Sec V µA °C

Notes:

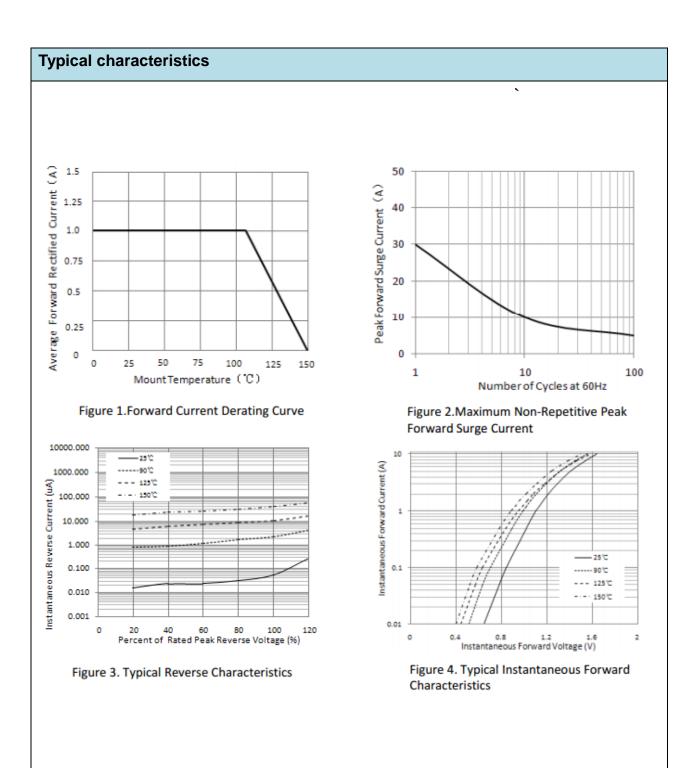
1 The thermal resistance from junction to mount, mounted on P.C.B with 8x8mm copper pads, 2 OZ, FR4 PCB

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



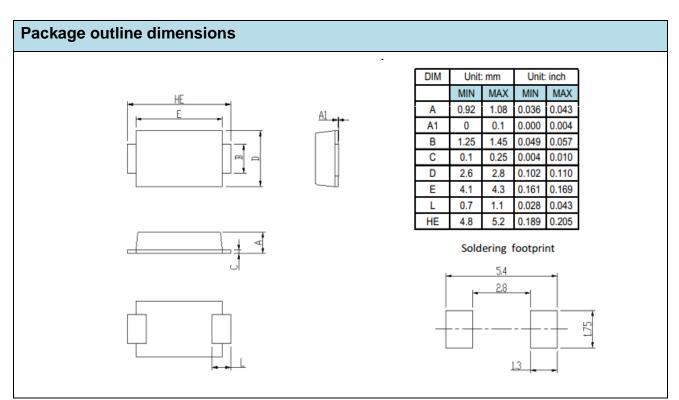
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Ordering information (Example)								
PREFERRED	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE				
LF7								





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