

Surface Mount Glass Passivated High Efficient Rectifier

SMAF(eSGB)			Features								
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Primary characteristics			Applications								
I _{F(AV)}		1A	Ideal	Ideal for ac-to-dc bridge full wave rectification suck as							
V _{RRM}	50V te	o 1000V	SMPS, home applianes, office equipment, indusrial								
I _{FSM}	3	80A	automation applicatios								
I _{RM}	5	δuA									
V _{FM} at I _F =1A		/1.7V	Mechanical data								
		50 °C	SMAF(eSGB)								
Maximum rating (Ta	=25°C I	Inless othe	 Po Mo Re 	comm	As ma g Torqu endec	rked. ue:10c	m-kg(8.8 inc cm-kg			
				SMAF(eSGB)							
Parameter			Sym	LH1	LH2	LH3	LH4	LH5	LH6	LH7	Unit
Max. repetitive peak reverse	lax. repetitive peak reverse voltage		Vrrm	50	100	200	400	600	800	1000	V
Max. RMS reverse voltage	<u> </u>		VRMS	35	70	140	280	420	560	700	V
Max. DC blocking voltage			V _{DC}	50	100	200	400	600	800	1000	V
Max. average forward current			I _{F(AV)}	1						А	
Non-repetitive peak forward surge current			IFSM				30				А
8.3ms single half-sine-wave				30							
Max. instantaneous forward voltage drop per diode		Vfm	1.3 1.7					V			
	lax. instantaneous reverse current Ta=25 °C		I _{RM}	5						μA	
at rated DC blocking voltage Ta=125 °C			TJ	50							°C
Operating junction temperature Storage temperature			Tstg	-55 ~ +150 -55 ~ +150						°C ℃	
Maximum reverse recovery time (Note1)			trr	50 75						nS	
	(Typical thermal resistance (Note2)			18						L

Notes:

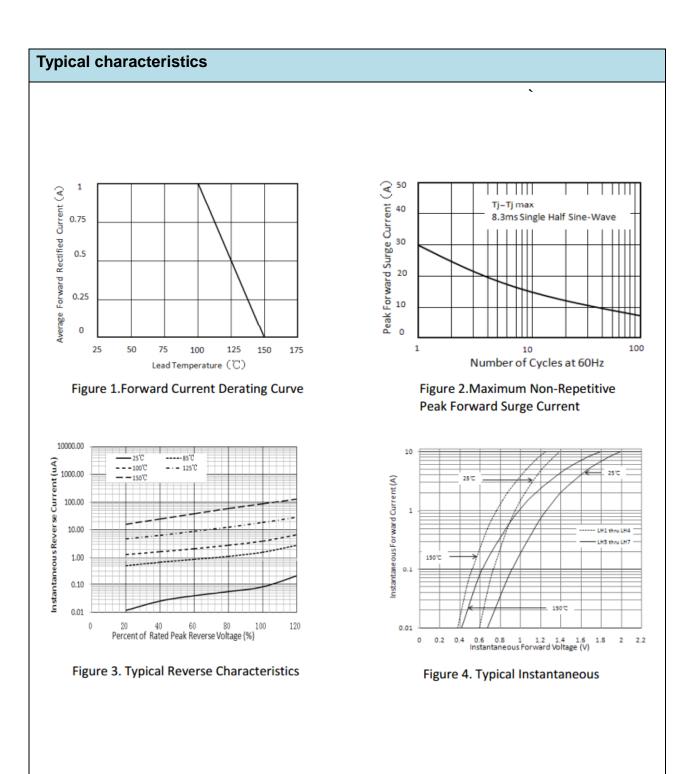
1 Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A

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



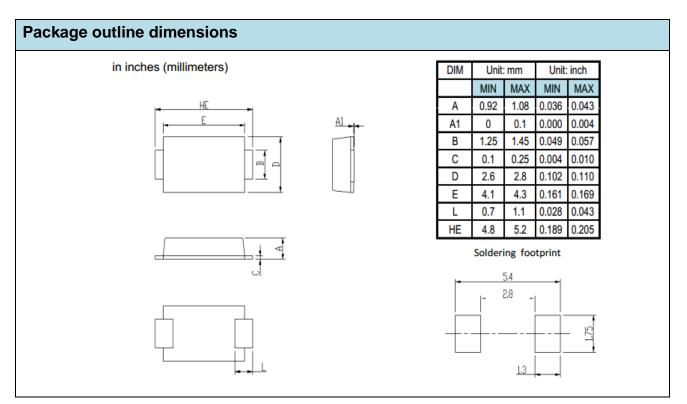
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Ordering information (Example)								
PREFERRED	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE				
LH7								





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