

## Surface Mount Glass Passivated High Efficient Rectifier

SMC(DO-214AB)				Features <ul> <li>ROHS compliant</li> <li>Glass passivated chip</li> <li>High forward surge capability</li> <li>Meet MSL level 1, per J-STD-020 LF maximum peak of 250 °C</li> <li>Solder dip 260 °C / 40S</li> <li>Component in accordance to ROHS 2002/95/EC</li> </ul>								
			an • UL	d WE . reco	EE 20 gnitio	002/9	6/WC	;				
Primary characteristics			Applications									
I <sub>F(AV)</sub>		3A	Ideal for ac-to-dc bridge full wave rectification suck as									
V <sub>RRM</sub>	50V t	o 1000V	SMPS, home applianes, office equipment, indusrial									
I <sub>FSM</sub>	1	50A	automation applicatios									
I <sub>RM</sub>	1	0uA	1									
V <sub>FM</sub> at I <sub>F</sub> =3A	1.0/1	.3/1.7V	Mechanical data									
T <sub>J</sub> max.	15	50 °C	• SMC(DO-214AB)									
				<ul> <li>Epoxy meets UL 94 V-0 flammability rating</li> <li>Terminals: Tin plated leads.</li> <li>Polarity: As marked.</li> <li>Mounting Torque:10cm-kg(8.8 inches-lbs)max.</li> <li>Recommended Torque:5.7 cm-kg(5 inches-lbs)</li> </ul>								
Maximum rating (Ta	a=25°C ι	unless othe	rwise r	noted	)							1
Parameter		Sym	SMC(DO-214AB)					Unit				
	Falameter		Sym	HS3A	HS3B	HS3D	HS3M	HS3G	HS3J	HS3K	HS3S	
Max. repetitive peak reverse voltage		Vrrm	50	100	200	300	400	600	800	1000	V	
Max. RMS reverse voltage			Vrms	35	70	140	210	280	420	560	700	V
Max. DC blocking voltage			V <sub>DC</sub>	50	100	200	300	400	600	800	1000	V
Max. average forward current			I <sub>F(AV)</sub>	3 A						A		
Non-repetitive peak forward surge current			IFSM	150 A								
8.3ms single half-sine-wave			\/	10 12 17 1					V			
Max. instantaneous forward voltage drop per diode Max. instantaneous reverse current Ta=25 °C		Vfm		1.0 1.3 1.7 V 10						V		
at rated DC blocking voltage $Ta=125 \circ C$		I <sub>RM</sub>									μA	
Operating junction temperature			TJ	-55 ~ +150						°C		
Storage temperature			Tstg	-55 ~ +150					°C			
Maximum reverse recovery time (Note1)			trr					nS				

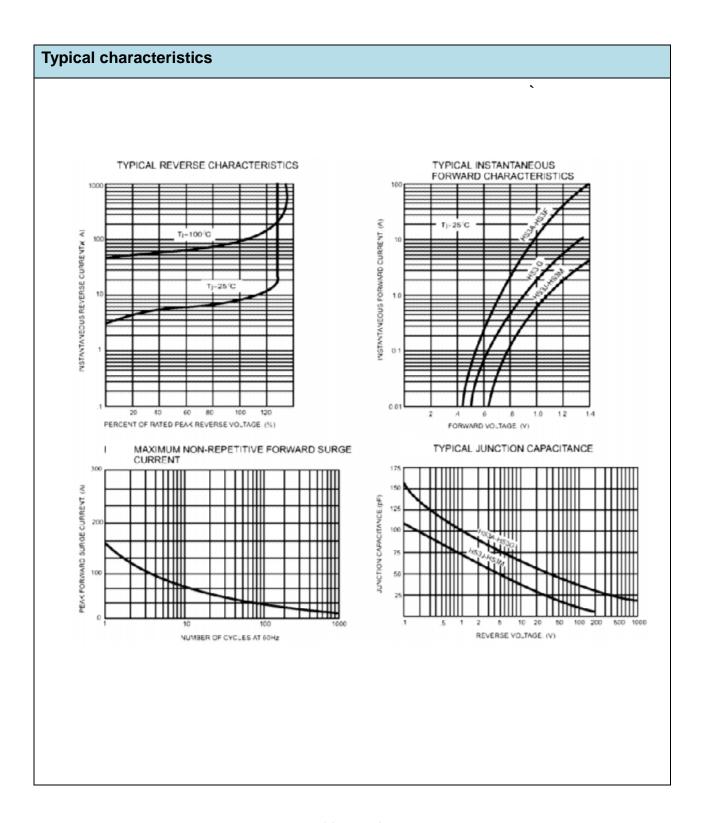
#### Notes:

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



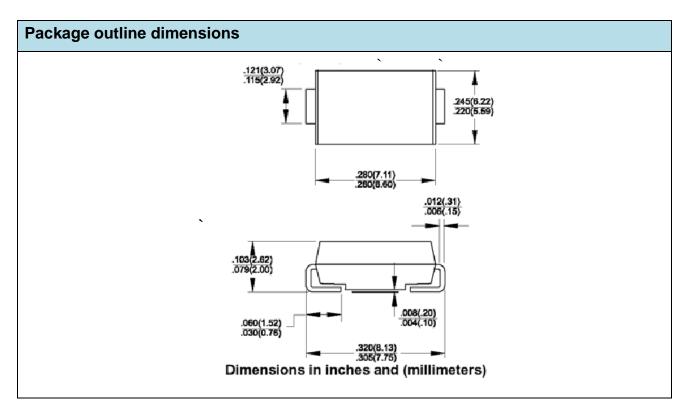
### Surface Mount Glass Passivated High Efficient Rectifier

Ordering information (Example)								
PREFERRED	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE				
HS3M								





Surface Mount Glass Passivated High Efficient Rectifier



# Golden SEMI Inc. - Legal Notice

#### Disclaimer - All data and specifications are subject to changes without notice

GOLDEN SEMI Inc, it's affiliates, agents, distributors and employees neither accept nor assume any responsibility for errors or inaccuracies. All data and specifications are intended for information and provide a product description only. Electrical and mechanical parameters listed in GOLDEN SEMI data sheets and specifications will vary dependent upon application and environmental conditions. GOLDEN SEMI is not liable for any damages occurred or resulting from any circuit, product or end-use application for which it's products are used. GOLDEN SEMI products are not intended or designed for use in life saving or sustaining apparatus and purchase of any GOLDEN SEMI products automatically indemnifies GOLDEN SEMI against any claims or damages resulting from application malfunction