

Surface Mount Glass Passivated High Efficient Rectifier

SMC(DO-214AB)				Features ROHS compliant Glass passivated chip High forward surge capability Meet MSL level 1, per J-STD-020 LF maximum peak of 250 °C Solder dip 260 °C / 40S Component in accordance to ROHS 2002/95/EC 								
			an • UL	d WE . reco	EE 20 gnitio	002/9	6/WC	;				
Primary characteristics			Applications									
I _{F(AV)}		3A	Ideal for ac-to-dc bridge full wave rectification suck as									
V _{RRM}	50V t	o 1000V	SMPS, home applianes, office equipment, indusrial									
I _{FSM}	1	50A	automation applicatios									
I _{RM}	1	0uA	1									
V _{FM} at I _F =3A	1.0/1	.3/1.7V	Mechanical data									
T _J max.	15	50 °C	• SMC(DO-214AB)									
				 Epoxy meets UL 94 V-0 flammability rating Terminals: Tin plated leads. Polarity: As marked. Mounting Torque:10cm-kg(8.8 inches-lbs)max. Recommended Torque:5.7 cm-kg(5 inches-lbs) 								
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 _{DC}	50	100	200	300	400	600	800	1000	V
Max. average forward current			I _{F(AV)}	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 _{RM}									μA	
Operating junction temperature			TJ	-55 ~ +150						°C		
Storage temperature			Tstg	-55 ~ +150					°C			
Maximum reverse recovery time (Note1)			trr					nS				

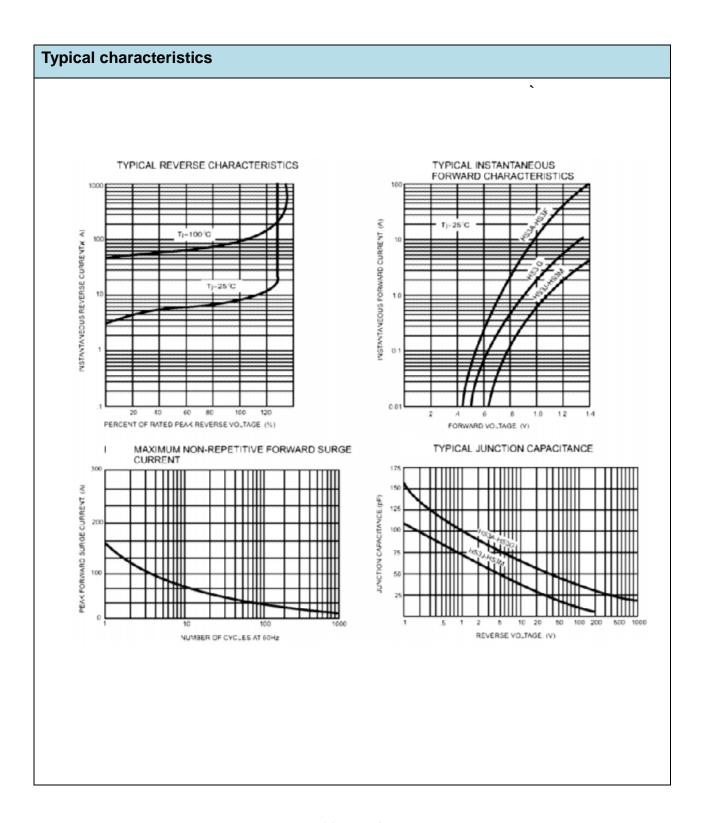
Notes:

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



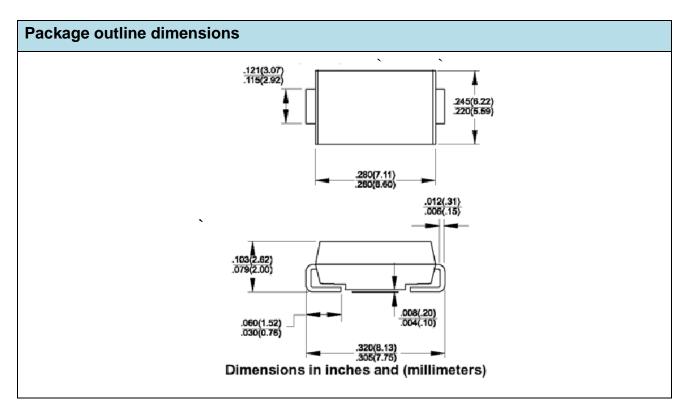
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Ordering information (Example)								
PREFERRED	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE				
HS3M								





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