

Fast Recovery Surface Mount Rectifier

SMC(DO-214AB)				uras							
				 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 and WEEE 2002/96/WC UL recognition, file number E342874 							
Primary characteristics			Applications								
I _{F(AV)} 3A			Ideal for ac-to-dc bridge full wave rectification suck as								
V _{RRM}	50V to	o 1000V	SMPS, home applianes, office equipment, indusrial								
I _{FSM}	1	00A	automation applicatios								
I _{RM}	1	OuA									
V _{FM} at I _F =3A		.3V	Mechanical data								
T _J max.		0 °C	• SMC(DO-214AB)								
Maximum rating (Ta	a=25°C เ	inless othe	 Po Mo Re 	comm	As ma g Torqi iendec	arked. ue:10a d Torq	cm-kgi ue:5.7	(8.8 in	ches-l g(5 inc		
Parameter		Sym	GR3A	GR3B	<u> </u>	GR3G	GR3J		GR3M	Unit	
Max. repetitive peak reverse voltage		Vrrm	50	100	200	400	600	800	1000	V	
Max. RMS reverse voltage		V _{RMS}	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)}	3						А	
Non-repetitive peak forward surge current 8.3ms single half-sine-wave			IFSM	100						А	
Max. instantaneous forward voltage drop per diode			VFM	1.3 (3A) V							
Max. instantaneous reverse current Ta=25 °C				10							μA
at rated DC blocking voltage Ta=125 °C		I _{RM}	^M 250								
Operating junction temperature			TJ	-55 ~ +150							°C
Storage temperature			Tstg	-55 ~ +150						°C	
Maximum reverse recovery time (Note 1)			trr	150 250 500					nS		
Typical thermal resistance (Note 2)			R J-A R J-L	50 15					°C/W		
Typical junction capacitance (Note 3)											

Notes: 1 Reverse Recovery Test Conditions: I_F =0.5A, I_R =1.0A, I_{RR} =0.25

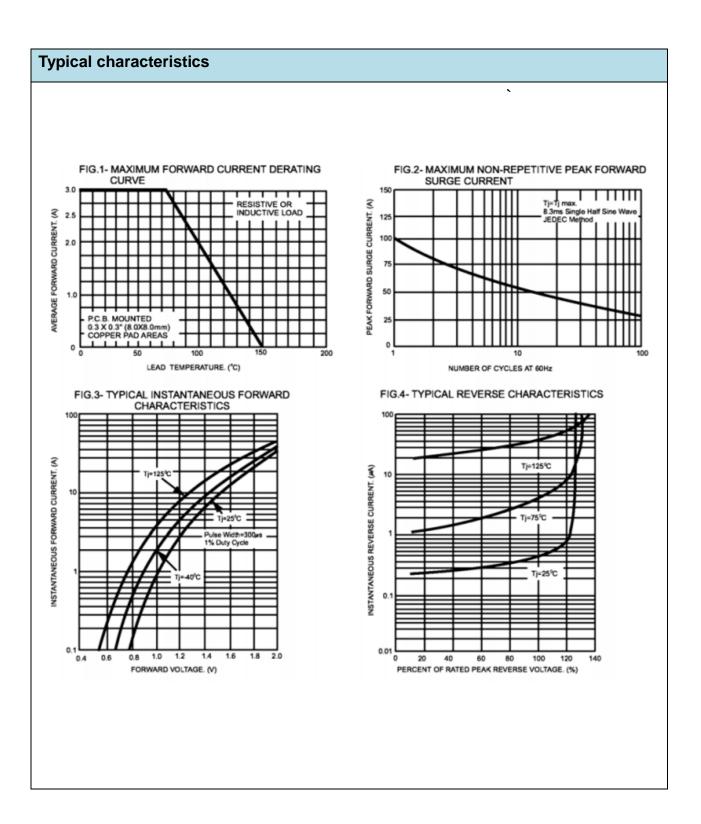
2 Thermal Resistance from Junction to Ambient and from Junction to Lead Mounted on P.C.B. with 0.3" x 0.3" (8.0 x 8.0 mm) Copper Pad Areas

3 Measured at 1 MHz and Applied Reverse Voltage of 4.0 V D.C



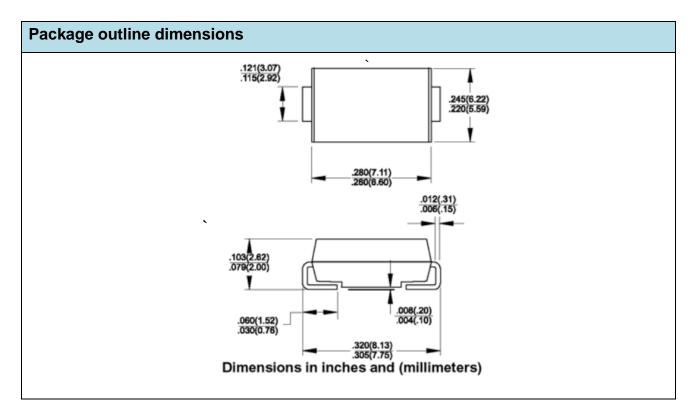
Fast Recovery Surface Mount Rectifier

Ordering information (Example)								
PREFERRED	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE				
GR3M								





Fast Recovery Surface Mount 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