

Surface Mounted Schottky Barrier Rectifiers

<u>SMC</u>



Features

- Low forward voltage drop
- High current capability
- Moisture sensitivity: level 1, per J-STD-020
- AEC-Q101 qualified
- High temperature soldering guaranteed: 260°C/10 seconds
- Halogen-free according to IEC 61249-2-21 definition

Primary characteristics					
I _{F(AV)}	3A				
V_{RRM}	70V to 100V				
I _{FSM}	100A				
I _{RM}	0.03mA				
V _{FM} at I _F =3A	0.79V				
T _J max.	150 °C				

Applications

For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

Mechanical data

- SMC
- Epoxy meets UL 94 V-0 flammability rating
- Terminals: Tin plated leads.
- Polarity: As marked.

Maximum rating (Ta=25°Cunless otherwise noted)								
Doromotor		Cress	SMC				11	
Parameter		Sym	SS37	SS38	SS39 SS3B		Unit	
Max. repetitive peak reverse voltage		V_{RRM}	70	80	90 100		V	
Max. RMS reverse voltage	ax. RMS reverse voltage		49	56	63	70	V	
Max. DC blocking voltage		V_{DC}	70	80	90	100	V	
Max. average forward current		I _{F(AV)}		;	3		Α	
Non-repetitive peak forward surge current 8.3ms single half-sine-wave		I _{FSM}	100			А		
Max. instantaneous forward voltage drop per diode		V _{FM}	0.79			V		
Max. instantaneous reverse current	Ta=25 °C			0.	03			
at rated DC blocking voltage	Ta=125 °C	I _{RM}		mA				
Operating junction temperature	Т		-55 ~ + 150			°C		
Storage temperature		T _{STG}	-55 ~ +150			°C		
		R _{⊙J-L}	J-L 15					
Typical thermal resistance (Note1)		R _{OJ-A}	65				°C/W	
		R _{OJ-C}	I-C 25					

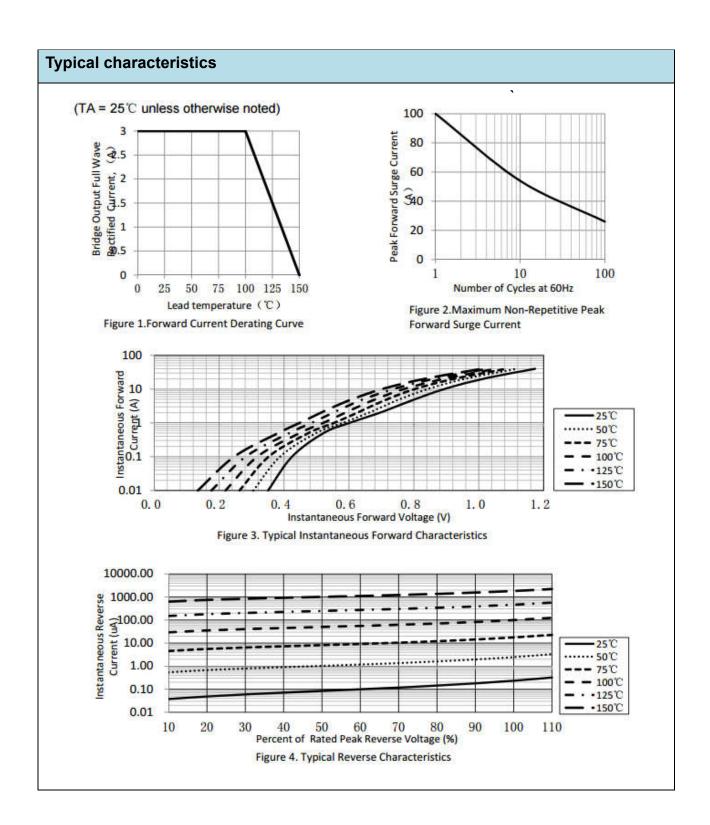
Notes:

 $[\]ensuremath{\mathsf{1}}$ The thermal resistance from junction to lead, ambient and cover.



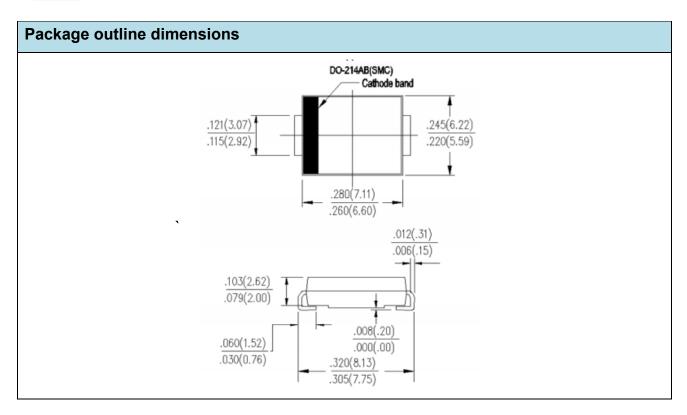
Surface Mounted Schottky Barrier Rectifiers

Orderinginformation (Example)						
PREFERRED	UNITWEIGHT(g)	PREFERREDPACKAGECODE	BASEQUANTITY	DELIVERYMODE		
SS37						





Surface Mounted Schottky Barrier Rectifiers



Gold SEMI Inc. - Legal Notice

<u>Disclaimer – All data and specifications are subject to changes without notice</u>

GOLD 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 GOLD SEMI data sheets and specifications will vary dependent upon application and environmental conditions .GOLD 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. GOLD SEMI products are not intended or designed for use in life saving or sustaining apparatus and purchase of any GOLD SEMI products automatically indemnifies GOLD SEMI against any claims or damages resulting from application malfunction