

Super Fast Surface Mount Rectifiers

SMB(DO-214AA)



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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

Applications

Ideal for ac-to-dc bridge full wave rectification suck as SMPS, home applianes, office equipment, indusrial automation applicatios

Mechanical data

- SMB(DO-214AA)
- 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)

Primary characteristics 3A $I_{F(AV)}$ V_{RRM} 50V to 600V I_{FSM} 100A I_{RM} 10uA V_{FM} at I_F=3A 0.92/1.25/1.7V T_J max. 150 °C

Maximum rating (Ta=25°C unless otherwise noted)										
<u> </u>			SMB(DO-214AA)							
Parameter		Sym	ES 3AB	ES 3BB	ES 3CB	ES 3DB	ES 3FB	ES 3GB 400 280 400	ES 3JB	Unit
Max. repetitive peak reverse voltage	V_{RRM}	50	100	150	200	300	400	600	V	
Max. RMS reverse voltage		V _{RMS}	35	70	105	140	210	280	420	V
Max. DC blocking voltage		V_{DC}	50	100	150	200	300	400	600	V
Max. average forward current			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}	0.92 1.25 1.7			1.7	V			
Max. instantaneous reverse current at rated DC blocking voltage	Ta=25 °C Ta=125 °C	I _{RM}	10 500					μА		
Operating junction temperature		TJ	-55 ~ + 150				°C			
Storage temperature		T _{STG}	-55 ~ + 150						°C	
laximum reverse recovery time (Note1) trr				35				nS		
Turning I de amond anni de amond (Aleda O)		R _{J-L}	10						°C/W	
Typical thermal resistance (Note2)		R _{J-A}				50			°C/W	

Notes:

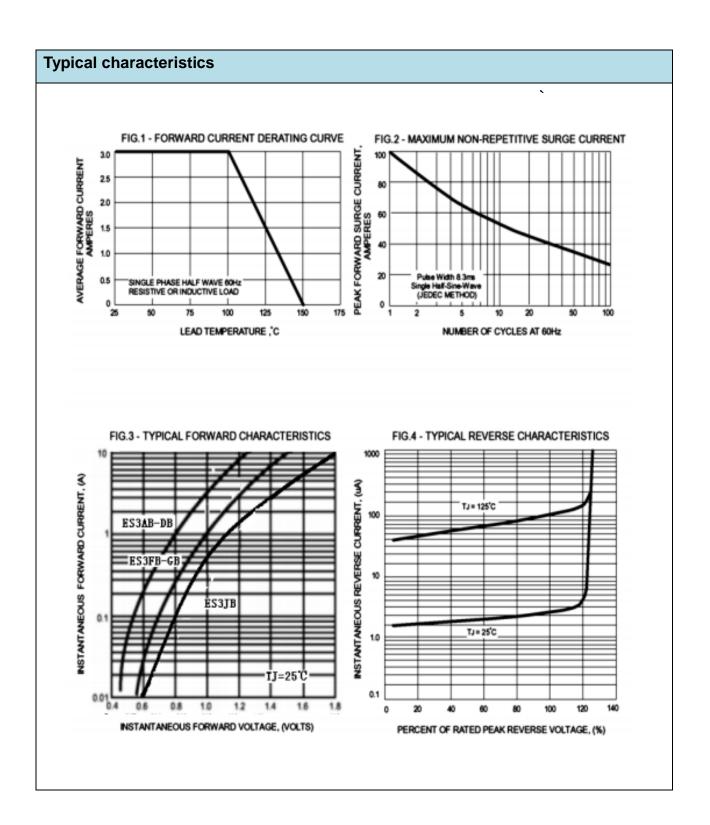
¹ Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A

² P.C.B. Mounted on 0.2 x 0.2" (5.0 x 5.0mm) Copper Pad Area



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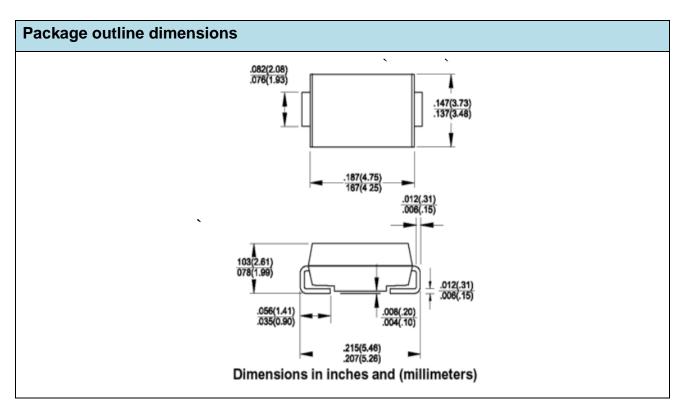
Ordering information (Example)							
PREFERRED	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE			
ES3AB							



Rev. A1 P2/3



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