

Super Fast Surface Mount Rectifiers

SMA(DO-214AC)



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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

- SMA(DO-214AC)
- 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					
I _{F(AV)}	1A				
V_{RRM}	50V to 1000V				
I _{FSM}	30A				
I _{RM}	5uA				
V _{FM} at I _F =1A	0.95/1.3/1.7V				
T _J max.	150 °C				

Maximum rating (Ta=25°C unless otherwise noted)												
<u> </u>			SMA(DO-214AC)									
Parameter			ES 1A	ES 1B	ES 1C	ES 1D	ES 1F	ES 1G	ES 1J	ES 1K	ES 1M	Unit
Max. repetitive peak reverse voltage		V_{RRM}	50	100	150	200	300	400	600	800	1000	V
Max. RMS reverse voltage		V _{RMS}	35	70	105	140	210	280	420	560	700	V
Max. DC blocking voltage		V_{DC}	50	100	150	200	300	400	600	800	1000	V
Max. average forward current			1						Α			
Non-repetitive peak forward surge current 8.3ms single half-sine-wave		I _{FSM}	30						А			
Max. instantaneous forward voltage drop per diode		V _{FM}	0.95 1.3 1.7						V			
Max. instantaneous reverse current at rated DC blocking voltage	Ta=25 °C Ta=125 °C	- I _{RM}	5 100					μA				
Operating junction temperature			-55 ~ + 150						°C			
Storage temperature			-55 ~ + 150						°C			
Maximum reverse recovery time (Note1)		trr	35						nS			
Typical thermal resistance (Note2)		R _{J-A}	85						°C/W			
		R _{J-L}	35						°C/W			

Notes:

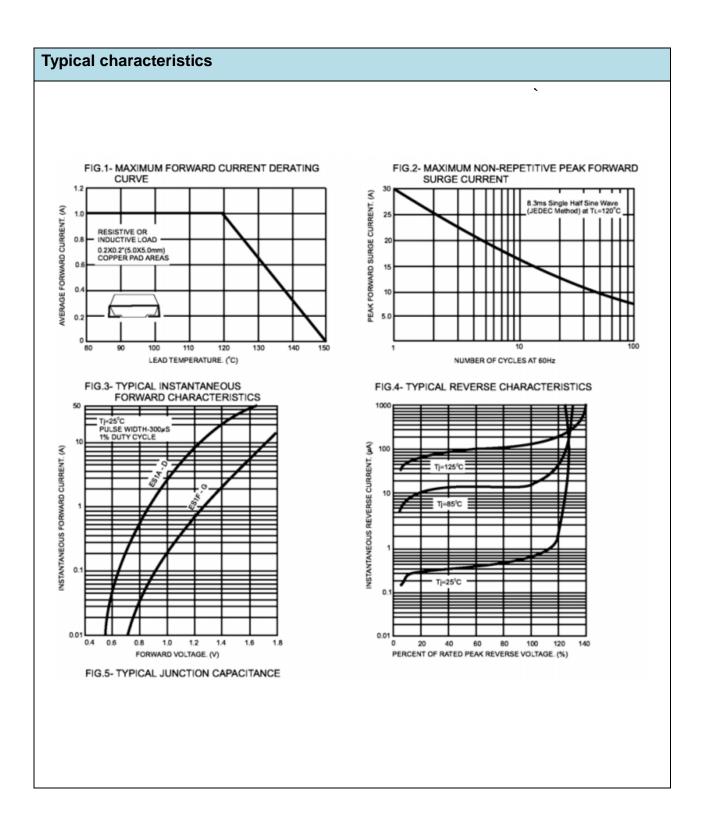
¹ Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A

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



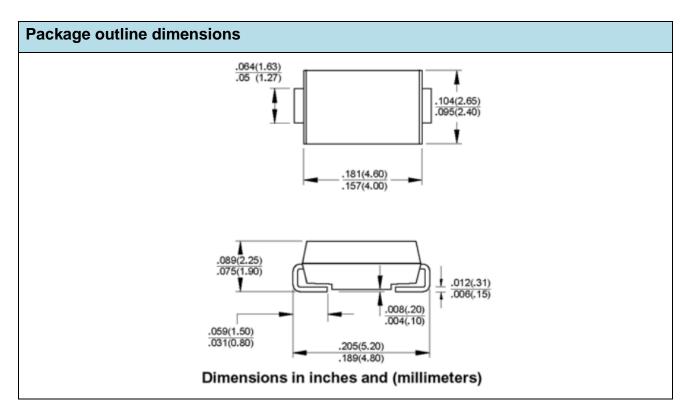
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Ordering information (Example)								
PREFERRED	UNIT WEIGHT (g)	PREFERRED PACKAGE CODE	BASE QUANTITY	DELIVERY MODE				
ES1A								





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