N5GSPM84FDS-N350SA







Volts

Current:

Fast Recovery Rectifiers Gpp Chip

3.0

Ampers Technology: GPP Type: FR Chip

Features

Voltage:

- NH'S Fast Recovery Rectifiers Chip Technology
- Low Switching Loss For High Efficiency

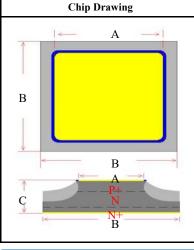
1000

- Low Leakage Current For High Reliability
- · Fast Switching Speed

Typical Applications

- Switch Mode Power Supplies (SMPS)
- Fast Chargers
- LED Driver And Monitor Lighting
- Automotive Electronics And Charging Posts

Mechanical Data



Chip Dimensions							
Parameter	Symbol	Vale	Tolerance	Unit			
Chip Size	A	2.108	±0.050	mm			
Pad Size	В	1.428	±0.050	mm			
Chip Thickness	С	0.255	±0.020	mm			
Wafer Size	Ø	5	±0.10	in			
		127	±2.54	mm			

Chip Surface Coating

Parameter	Coating			
Top Metal	Ni-Ni			
Back Metal	Ni-Ni			
Passivation	Sipos+Glass+LTO			

Maximum Ratings (Ta=25℃ Unless Otherwise Specified)

Parameter	Test Conditions	Symbol	N5GSPM84FDS-N350SA	Unit
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	1000	V
Maximum Average Forward Rectified Curren	@TC= 100 °C	$I_{F(AV)}$	3	A
Peak Forward Surge Current	8.3ms Single Half Sine-wave Superimposed On Rate Load	I_{FSM}	110	A

Electrical Characteristcs (Ta=25°C Unless Otherwise Specified)

Donomotou	Test Conditions		Symbol	N5GSPM84FDS-N350SA			TT:4
Parameter				Min.	Тур.	Max.	Unit
I4 F	Ta=25°C	I - 20 A	17		0.93	0.98	V 7
Instaneous Forward Voltage	Ta=125℃	$I_F = 3.0 A$	$\mathbf{V}_{\mathbf{F}}$		0.81	0.86	l v
Maximum DC Reverse Current At	Ta=25°C	$V_R = V_{RRM}$	т		0.10	1.00	4
Rated DC Blocking Voltage	Ta=125℃	$\mathrm{V_{R}}\!\!=80\%\mathrm{*V_{RRM}}$	$\mathbf{I}_{\mathbf{R}\mathbf{R}\mathbf{M}}$		50.00	100.00	uA
Maximum Reverse Recovery Time	$I_F = 0.5A, I_R = 1$	1.0A, I _{RR} =0.25A	T_{RR}	150	200	350	nS

Thermal Characteristcs (Ta=25°C Unless Otherwise Specified)

Parameter	Symbol	N5GSPM84FDS-N3	Unit	
Operating Junction Temperature Range	T_{J}	-55 to	150	ş
Storage Temperature Range	T _{STD}	-55 to	150	l ^{°C}

Notes: 1.Pulse Test: 300 uS Pulse Width,1% Duty Cycle

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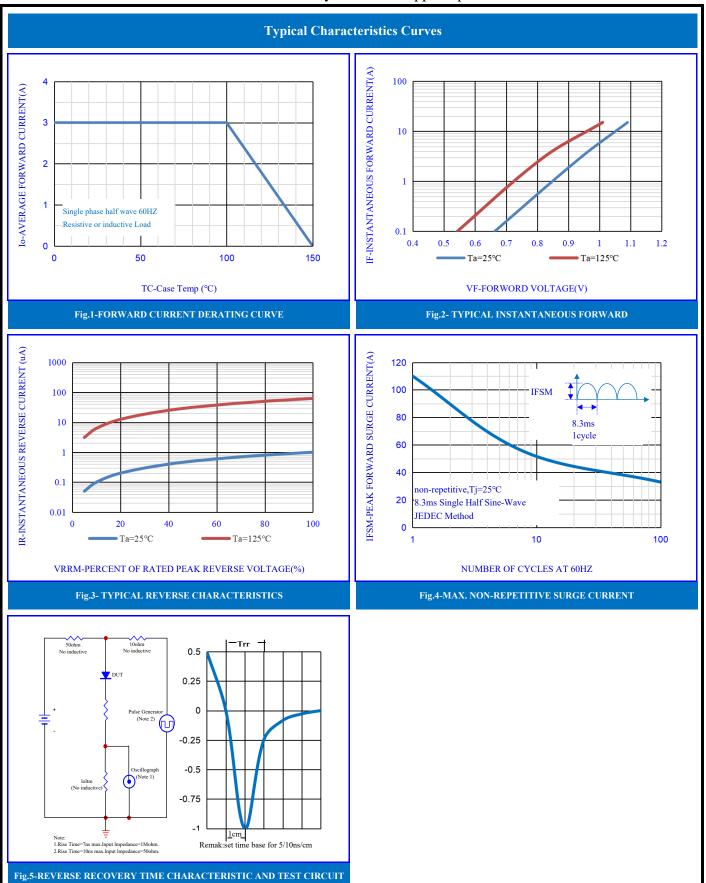
HF



ROHS COMPLIANT

N5GSPM84FDS-N350SA

Fast Recovery Rectifiers Gpp Chip



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