Specification For Approval

N5GSP-M84FDS-N350SA







F

FAST RECOVERY RECTIFIER GPP CHIP

VOLTAGE: 1000 Volts CURRENT: 3 Ampers

FEATURES

- Glass Passivated Chip Junction
- Super Fast Recovery Time For High Efficiency
- Low Leakage Current For High Reliability
- High Forward Surge Capability For High Reliability

TYPICAL APPLICATIONS

- PD Fast Charger
- Swithch Power Supply
- LED Driver
- Audio Equipment

Mechanical Data							
Chip Drawing	Chip Dimensions						
← A →		Symbol	Vale	Tolerance	Unit		
^	Chip Size	A	2.108	±0.050	mm		
	Pad Size	В	1.428	±0.020	mm		
	Chip Thickness	С	0.255	±0.050	mm		
	wafer Size		5	±0.10	in		
В			127	±2.54	mm		
	Chip Surface Coating						
	Top Metal	Ni-Ni	Ni-Ni				
	Back Metal	Ni-Ni	Ni-Ni				
— B —→	Passivation	SIPOS+GLASS+L7	SIPOS+GLASS+LTO				
$ \begin{array}{c c} & A & \rightarrow \\ & P+ \\ & N+ \\ & B & \rightarrow \end{array} $							

Maximum Ratings (Ta=25°C Unless Otherwise Specified)							
Parameter	Test Conditions	Symbol	N5GSP-M84FDS-N350SA	Unit			
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	1000	V			
Maximum Average Forward Rectified Current	@TC= 100 °C	$I_{F(AV)}$	3	A			
Peak Forward Surge Current	8.3ms Single Half Sine-wave Superimposed On Rate Load	I_{FSM}	80	A			

Electrical Characteristcs (Ta=25°C Unless Otherwise Specified)							
Parameter	Test Conditions		Symbol	N5GSP-M84FDS-N350SA			¥1
				Min.	Тур.	Max.	Unit
Instaneous Forward Voltage Per Diode (note1)	Ta=25°C	I _F = 3.0 A	$\mathbf{V}_{\mathbf{F}}$		0.93	0.98	v
	Ta=125°C				0.81	0.86	
Maximum DC Reverse Current At Rated DC	Ta=25°C	$V_R = V_{RRM}$	I _{RRM}		0.10	1.00	uA
Blocking Voltage (Note 1)	Ta=125°C	$V_{R} = 80\% * V_{RRM}$			50.00	100.00	
Maximum Reverse Recovery Time	I_F =0.5A, I_R =1.0A, I_{RR} =0.25A		T_{RR}		400.00	500.00	nS

Thermal Characteristcs (Ta=25°C Unless Otherwise Specified)							
Parameter	Symbol	N5GSP-M84FDS-N350SA	Unit				
Operating Junction Temperature Range	T_{J}	-55 to 150	9C				
Storage Temperature Range	T _{STD}	-55 to 150	~				

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

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For Approval

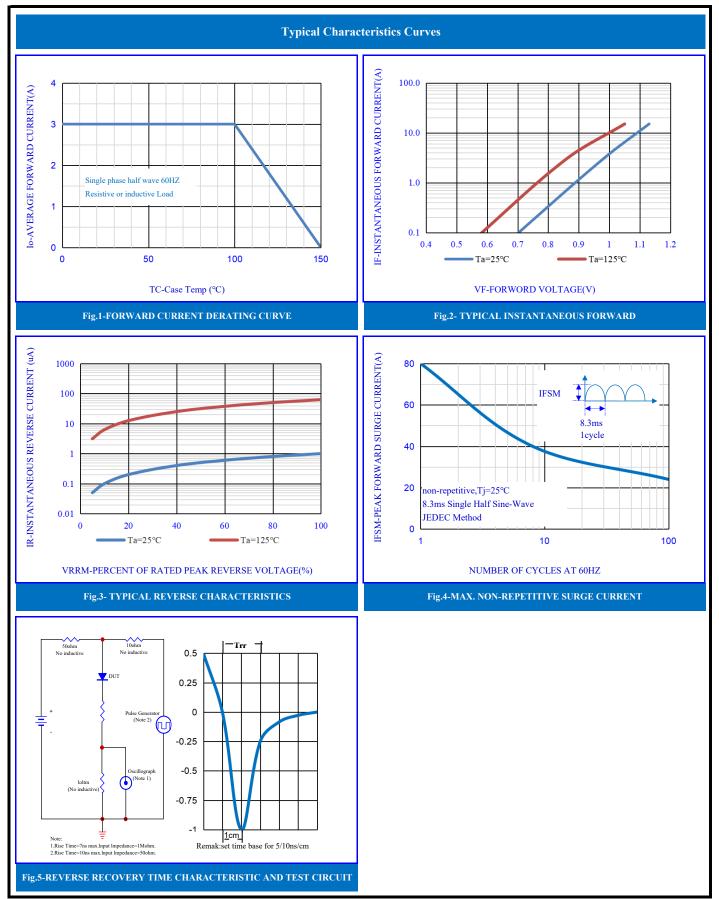
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