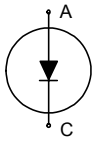
SIDC26D65C8

Fast switching diode chip in EMCON 3 -Technology

Features:
- 650V EMCON 3 technology 65 µm chip
- Soft, fast switching
- Low reverse recovery charge
- Small temperature coefficient
- Qualified according to JEDEC for target applications

Recommended for:
- Power module



Applications:
- Drives
- White goods
- Resonant applications

Chip Type	V_R	I_{Fn} [1)]	Die Size	Package
SIDC26D65C8	650V	100A	6.53 x 4.02 mm^2	sawn on foil

[1)] nominal forward current at Tc = 100°C, not subject to production test - verified by design/characterisation

Mechanical Parameters

Die size		6.53 x 4.02	mm^2
Area total		26.25	
Anode pad size		5.83 x 3.32	
Thickness		65	µm
Wafer size		200	mm
Max. possible chips per wafer		1032	
Passivation frontside		Photoimide	
Pad metal		3200 nm AlSiCu	
Backside metal		Ni Ag –system	
Die bond		Electrically conductive epoxy glue and soft solder	
Wire bond		Al, ≤500µm	
Reject ink dot size		∅ 0.65mm; max 1.2mm	
Storage environment	for original and sealed MBB bags	Ambient atmosphere air, Temperature 17°C – 25°C, < 6 month	
	for open MBB bags	Acc. to IEC62258-3: Atmosphere >99% Nitrogen or inert gas, Humidity <25%RH, Temperature 17°C – 25°C, < 6 month	

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Maximum Ratings

Parameter	Symbol	Condition	Value	Unit
Repetitive peak reverse voltage	V_{RRM}	T_{vj} = 25 °C	650	V
Continuous forward current	I_F	T_{vj} < 150°C	[1)]	A
Maximum repetitive forward current[2)]	I_{FRM}	T_{vj} < 150°C	200	
Operating junction temperature	T_{vj}		-40...+175	°C

[1)] depending on thermal properties of assembly

[2)] not subject to production test - verified by design/characterisation

Static Characteristics (tested on wafer), T_{vj} = 25 °C

Parameter	Symbol	Conditions	Value			Unit
			min.	typ.	max.	
Reverse leakage current	I_R	V_R=650V			1.2	µA
Cathode-Anode breakdown Voltage	V_{BR}	I_R=0.25mA	650			V
Forward voltage drop	V_F	I_F=30A	1.03	1.17	1.32	

Electrical Characteristics (not subject to production test - verified by design/characterization)

Parameter		Symbol	Conditions	Value			Unit
				min.	typ.	max.	
Forward voltage drop	T_{vj} = 25°C	V_F	I_F=100A		1.55	1.95	V
	T_{vj} = 150°C				1.45		

Further Electrical Characteristics

Switching characteristics and thermal properties are depending strongly on module design and mounting technology and can therefore not be specified for a bare die.

This chip data sheet refers to the device data sheet	FS100R07N3E4_B11	Rev. 2.0

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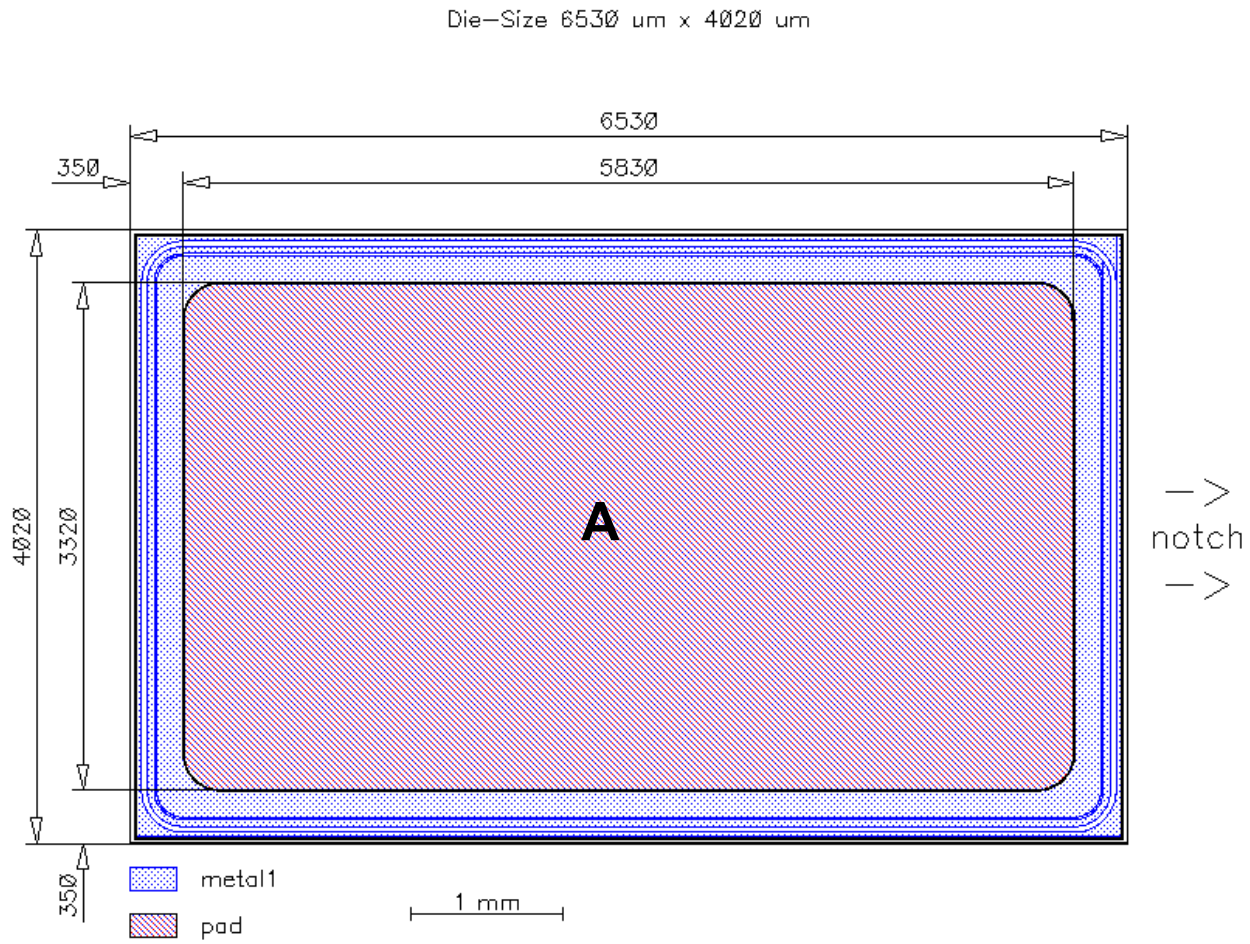
Chip Drawing



A: Anode pad

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Description

AQL 0,65 for visual inspection according to failure catalogue

Electrostatic Discharge Sensitive Device according to MIL-STD 883

Revision History

Version	Subjects (major changes since last revision)	Date

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