SPD30N06S2-23 Datasheet

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DiGi Electronics Part Number	SPD30N06S2-23-DG
Manufacturer	Infineon Technologies
Manufacturer Product Number	SPD30N06S2-23
Description	MOSFET N-CH 55V 30A TO252-3
Detailed Description	N-Channel 55 V 30A (Tc) Surface Mount PG-TO252-3-11

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Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
SPD30N06S2-23	Infineon Technologies
Series:	Product Status:
OptiMOS™	Obsolete
FET Type:	Technology:
N-Channel	MOSFET (Metal Oxide)
Drain to Source Voltage (Vdss):	Current - Continuous Drain (Id) @ 25°C:
55 V	30A (Tc)
Drive Voltage (Max Rds On, Min Rds On):	Rds On (Max) @ Id, Vgs:
10V	23mOhm @ 21A, 10V
Vgs(th) (Max) @ Id:	Gate Charge (Qg) (Max) @ Vgs:
4V @ 50µA	32 nC @ 10 V
Vgs (Max):	Input Capacitance (Ciss) (Max) @ Vds:
±20V	1250 pF @ 25 V
FET Feature:	Power Dissipation (Max):
-	-
Operating Temperature:	Mounting Type:
-	Surface Mount
Supplier Device Package:	Package / Case:
PG-TO252-3-11	TO-252-3, DPAK (2 Leads + Tab), SC-63
Base Product Number:	
SPD30N	

Environmental & Export classification

RoHS Status:	Moisture Sensitivity Level (MSL):
RoHS non-compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	
8541.29.0095	

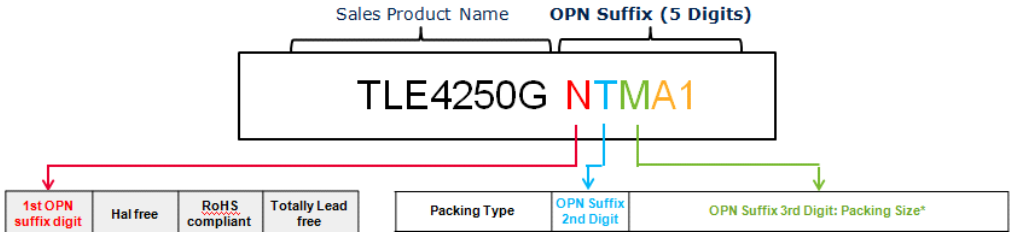
Orderable Part Number OPN Translation Table

You can find your related information (OPN, pCPN, Sales Type, SP) here.

Orderable Part Number OPN Identifiers

The descriptive identifiers within the OPN tell you more about the product attributes. Please find the related information below.

Example for an OPN (the OPN relevant suffix are the last 5 digits)



1st digit: RoHS, Halogen and Totally Lead Free Status

OPN suffix 1st digit [1]	Hal free	RoHS compliant	Totally Lead free
A	Yes	Yes	No
B	No	Yes	No
C	Undefined	Yes	No
D	Yes	No	No
N	No	No	No
E	Undefined	No	No
X	Yes	Yes	Yes
H	No	Yes	Yes
F	Undefined	Yes	Yes

2nd and 3d digit: Packing type, Moisture Protection Packing and Packing Size

The 2nd digit shows the functional packing type in combination with the moisture protection packing.

The 3rd digit shows the number of devices per functional packing or the number of functional packings (denoted with 1)

	Packing type		OPN suffix 2nd digit	OPN suffix 3rd digit: Packing Size*			
				S	M	L	X
Bare Die	ADHESIVE-BAKED PUNCHED TAPE		3	<=2000	<=5000	<=10000	>10000
	BLISTER TAPE		2	<=2000	<=5000	<=10000	>10000
	VACUUM RELEASED TRAY		4	<=10	<=50	<=100	>100
	WAFER SAWN		1	1	<=13	<=25	>25
	WAFER UNSAWN		6	1	<=13	<=25	>25
	WAFFLE PACK		5	<=10	<=50	<=100	>100
	HORIZONTAL FRAME SHIPPER		7	1 *2)	<=13 *2)	<=25 *2)	>25 *2)
Component	AMMO-PACK	NON DRY	A	<=1000	<=1500	<=2000	>2000
	BLISTER TRAY	NON DRY	W	<3 *1)	<=6 *1)	<=10 *1)	>10 *1)
	BULK	NON DRY	B	<=100	<=500	<=1000	>1000
	BULK	DRY	I	<=100	<=500	<=1000	>1000
	CARD BOARD (PRE PACK)		F	1	>1	>=300	>=1000
	CONTAINER	NON DRY	D	<=10	<=20	<=100	>100
	CONTAINER	DRY	Y	<=10	<=20	<=100	>100
	RADIAL REEL		G	<=1000	<=1500	<=2000	>2000
	REEL FOR CHIP CARD		H	1	<=1000	<=10000	>10000
	TAPE & REEL	DRY	U	1 *1)(180mm)	1 *1)(330mm)	>1 *1) (180)	>1 *1)(330)
	TAPE & REEL	NON DRY	T	1 *1)(180mm)	1 *1)(330mm)	>1 *1)(180)	>1 *1)(330)
	TAPE & REEL LEFT	DRY	S	1 *1)(180mm)	1x *1)(330mm)	>1 *1) (180)	>1 *1)(330)
	TAPE & REEL LEFT	NON DRY	R	1 *1)(180mm)	1x *1)(330mm)	>1 *1)(180)	>1 *1)(330)
	TAPE & REEL RIGHT	DRY	X	1 *1)(180mm)	1x *1)(330mm)	>1 *1) (180)	>1 *1)(330)
	TAPE & REEL RIGHT	NON DRY	E	1 *1)(180mm)	1x *1)(330mm)	>1 *1)(180)	>1 *1)(330)
	TRAY	DRY	Q	<3 *1)	<=6 *1)	<=10 *1)	>10 *1)
	TRAY	NON DRY	P	<3 *1)	<=6 *1)	<=10 *1)	>10 *1)
	TUBE	DRY	L	<=10 *1)	<=20 *1)	<=40 *1)	>40 *1)
	TUBE	NON DRY	K	<=10 *1)	<=20 *1)	<=40 *1)	>40 *1)

* In devices per functional packing, if denoted with *1) in functional packings per box

*2) Wafer Sawn

	Packing type	OPN suffix 2nd digit	OPN suffix 3rd digit: Packing Size*			
			S	M	L	X
Inactive packing types	Chip	C	1			
	Wafer sawn	J	1	<=13	<=25	>25
	Single Box	N	1			
	Tape & Reel Bare Die	M	<=2000	<=5000	<=10000	>10000
	Trays non-dry	O	<=10	<=50	<=100	>100
	Wafer	V	1			

* In devices per functional packing

Examples for packing type- and size

1. TLE4250G with OPN TLE4250GNTSA1 and TLE4250GNTMA1
This product comes on two different reel sizes: 180mm and 330mm.
One can see from the second digit that the product comes on tape & reel (T). Now the packing size can be determined by the third identifier. This product comes as “S” and “M”.
“S” means 180mm, “M” means 330mm. Even if this detail was not known, it becomes obvious on first sight that TLE4250GNTSA1 is smaller than TLE4250GNTMA1.

2. SAE800G with OPN SAE800GXLLA1
This product comes in Tubes (indicated by the “L” in the 2nd digit). The third digit of the OPN is also an “L” which indicates that there are between 21 and 40 tubes per box.

3. SIPC03S2N03L with OPN SIPC03S2N03LX3MA1
This product comes on Tape & Reel bare die (3). The third identifiers (M) indicates that there are between 2001 and 5000 bare dies on the reel.

Although none of the packing size indications gives an exact number of products per packing, it allows you to distinguish between two different products: You can immediately see which product

4th and 5th digit: Designator

The designator increments (e.g. from A1 to A2) whenever a new SP number is set up that does not differ from a previous product in either Salesname or the first three OPN suffix identifiers. Product variants such as different temperature ranges or ROM codes can therefore be recognized by the designator.

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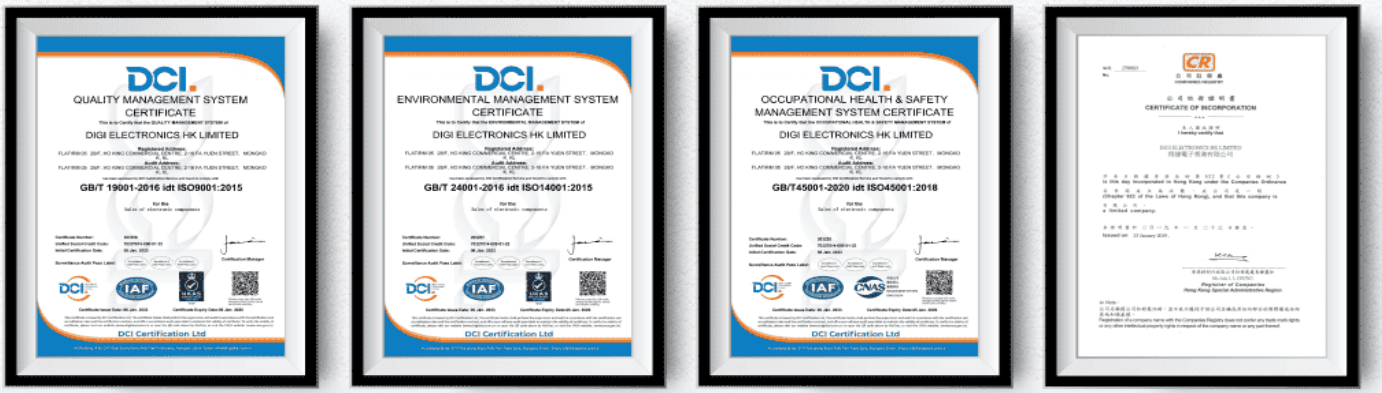

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