

5 é / Descriptions

TO-262 .> // x N ?ú 3 MOS « | • 'ož
N-CHANNEL MOSFET in a TO-262 Plastic Package.

□^a / Features

z ð > z F Ø • ¼, † ½ —)í D }ož
Low gate charge, low crss, fast switching, HF product.

Đ ÷ / Applications

9 ä ä *) *) ô E y ä • ¼ož
These devices are well suited for high efficiency switching DC/DC converters and switch mode power supplies.

Ã w] Ô · / Equivalent Circuit

• Ů - æ / Pinning

PIN1 y G PIN 2 y D PIN 3 y S

, M V / Marking

• - ~^a ¢ož See Marking Instructions

@ f Parameter	... Z Symbol	f > Rating	% y Unit
Drain-Source Voltage	V_{DSS}	650	V
Drain Current	$I_D(T_c=25^\circ C)$	10	A
Drain Current	$I_D(T_c=100^\circ C)$	5.7	A
Drain Current - Pulsed	I_{DM}	38	A
Gate-Source Voltage	V_{GSS}	± 20	V
Single Pulsed Avalanche Energy	E_{AS}	488.9	mJ
Avalanche Current	I_{AR}	9.5	A
Thermal Resistance, Junction-to-Case	R_{JC}	0.8	/W
Thermal Resistance, Junction-to-Ambient	R_{JA}	65	- /W
Power Dissipation	$P_D(T_c=25^\circ C)$	156	W
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to 150	

@ f Parameter	... Z Symbol	y i Ú ^ Test Conditions	Â 4 > Min	Á ° > Typ	Â Ý > Max	% y Unit
Drain-Source Breakdown Voltage	BV_{DSS}	$V_{GS}=0V$ $I_D=250\text{ A}$	650			V
Zero Gate Voltage Drain Current	I_{DSS}	V_{DS}				

Ô ? d • Ž ¢ / Electrical Characteristic Curve

Ø □ =) ¢ / Package Dimensions

, M y f / Marking Instructions

BR

10N65

^a ¢ y
(8 y , [W A
10N65 y ° Z W A
y Ÿ D Z W A k Š Ÿ D Z J

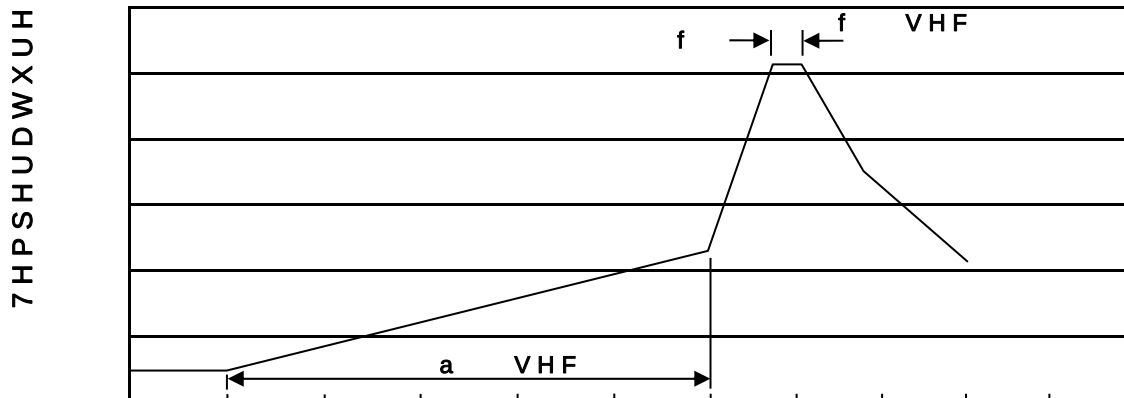
Note:

BR: Company Code

10N65: Product Type Code

****: Lot No. Code, code change with Lot No.

G PD t ... • Ž Ć (x /) / Temperature Profile for Dip Soldering(Pb-Free)



7LPH VHF

a Ć y

1o• Ä ½ " † 25 ½150 - k ž • 60 ½90sec;

2o• Q > " † 255 r5 - k ž • 4 Ò 5 r0.5sec;

3o•D N ò i Ò 0 , † 2 ½10 - /sec.

Note:

1.Preheating:25~150 - , Time:60~90sec.

2.Peak Temp.:255 r5 - , Duration:5 r0.5sec.

3. Cooling Speed: 2~10 - /sec.

ÂD /Că p - »] / Resistance to Soldering Heat Test Conditions

" † y 270 r5 -

ž • y 10 r1 sec.

Temp.:270±5

Time:10±1 sec

G P á / Packaging SPEC.

ì ' x / TUBE

Package Type 7>û ~ E	Units ;>û !H					Dimension ;>û p . (unit Åmm³)		
	Units/Tube /•1×	Tubes/Inner Box •1×/-	Units/Inner Box /-	Inner Boxes/Outer - /1ç	Units/Outer Box /1ç	Tube•1×	Inner Box	Outer Box
TO-262	50	20	1,000	5	5,000	532×31.4×5.5	555×164×50	575×290×180

„Đ y f / Notices

Î † U ^ ñ Ä ' Î @ l c - ² Á Ò Ć ³ Ø o ž

All information provided in this document is subject to legal disclaimers.