TO-263 .> / / x N ?ú 3 MOS « | • ’ož N-CHANNEL MOSFET in a TO-263 Plastic Package.

z õ > z F Ø • ¼ , † ½ož —)í D }ož
Low gate charge, low crss, fast switching. Halogen-free Product.

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.

PIN1 y G PIN 2o•4 y D PIN 3 y S

Z Ü B , M V / h_{FE}

@ ƒ Parameter	… Z Symbol	ƒ › Rating	% y Unit
Drain-Source Voltage	V_{DSS}	80	V
Drain Current	I_D(Tc=25)	100	A
Drain Current	I_D(Tc=100)	72	A
Peak Drain Current	I_{DM}	320	A
Gate-Source Voltage	V_{GSS}	±20	V
Repetitive Avalanche Energy	E_{AS}	1164	mJ
Repetitive Avalanche Energy	E_{AR}	13.1	mJ
Avalanche Current	I_{AR}	75	A
Total Power Dissipation	P_D(Tc=25)	165	W
Junction and Storage Temperature Range	T_J,T_{STG}	-55 to 150	

@ ƒ Parameter	… Z Symbol	y ¡ Ú ^ Test Conditions	Â 4 › Min	Á º › Typ	Â Ý › Max	% y Unit
Zero Gate Voltage Drain Current	BV_{DSS}	V_{GS}=0V I_D=250 A	80			V
Zero Gate Voltage Drain Current	I_{DSS}	V_{DS}=80V V_{GS}=0V			1	A
		V_{DS}=80V V_{GS}=0V T_C=125			10	A
Gate-Body Leakage Current Forward	I_{GSS}	V_{GS}=±20V V_{DS}=0V			±0.1	A
Gate Threshold Voltage	$V_{GS(th)}$	V_{DS}=V_{GS} I_D=250 A	2		4	V
Static Drain-Source On-Resistance	$R_{DS(on)}$	V_{GS}=10V I_D=40A		6.5	8	m
Forward Transconductance	g_{FS}	V_{DS}=5V I_D=30A		58		S

=40A2

Ø ¤ =) ¢ / Package Dimensions

, M y ƒ / Marking Instructions

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BR y ¸ [W A

š WD t … • Ž ¢ (x /) / : K S V K X G Z [X K 6 X U L O R K L U X / 8 8 K L R U] 9 U R J K X O T M 6

ª ¢ y

1o• Ä ½ “ † 150 ½180 - k ž • 60 ½90sec;

2o• Q › “ † 245 r5 - k ž • 4 Ò 5 r0.5sec;

3o•D N ò i Ò 0 , † 2 ½10 - /sec.

Note:

1.Preheating:150~180 - , Time:60~90sec.

2.Peak Temp.:245 r5 - , Duration:5 r0.5sec.

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

ÂD /Cã p ¯ »] / Resistance to Soldering Heat Test Conditions

“ † y 260 r5 - ž • y 10 r1 sec. Temp.:260±5 Time:10±1 sec

G P á / Packaging SPEC.

2 & x / REEL

Package Type ß m ù ´	Units g m ô h					Dimension g m d Ê (unit ! mm³)		
	Units/Reel /	Reels/Inner Box	Units/Inner Box / ç	Inner Boxes/Outer Box ç / ±	Units/Outer Box / ±	Reel	Inner Box ç	Outer Box ±
TO-263	800	1	800	5	4,000	13s ×24	360×360×50	385×257×392

ì ’ x / TUBE

Package Type ß m ù ´	Units g m ô h					Dimension g m d Ê (unit ! mm³)		
	Units/Tube / Š •	Tubes/Inner Box Š • / ç	Units/Inner Box / ç	Inner Boxes/Outer Box ç / ±	Units/Outer Box / ±	Tube Š •	Inner Box ç	Outer Box ±
TO-263	50	20	1,000	5	5,000	532×33×7.0	555×164×50	575×290×180

„ Ð y ƒ / Notices