SO-8 DEVICES (continued)



SOIC (MiniMOS™) Packages

MiniMOS devices are an advanced series of power MOSFETs which utilize Motorola's High Cell Density HDTMOS process. These miniature surface mount MOSFETs feature ultra low R_{DS(on)} and true logic level performance.

MiniMOS devices are designed for use in low voltage, high speed switching applications where power efficiency is important. Typical applications are dc-dc converters and power management in portable and battery powered products such as computers, printers, cellular and cordless phones. They can also be used for low voltage motor controls in mass storage products such as disk drives and tape drives.

Multiple Chip Products in SOIC - N-Channel

V _{(BR)DSS}	R _{DS(on)} @ V _{GS}			ID	Motorola	P _D (3)
(V)	10 V (mΩ)	4.5 V (mΩ)	2.7 V (mΩ)	(A)	Part Number	(Watts) Max
50	200	180	_	1	MMDF1N05E	1.5
30	40 70 70/200 ⁽¹¹⁾	45 90 90/220	_ _ _	5 2.8 2	MMSF5N03HD MMDF3N03HD MMDF2C03HD	1.5 1.5 1.5
20	85 180 100/200 ⁽¹¹⁾	40 90 200 200/350 ⁽¹¹⁾	_ _ _ _	5 3 2 2	MMSF5N02HD MMDF3N02HD MMDF2N02E MMDF2C02E	1.5 1.5 1.5 1.5
12	_ _ _	<u>-</u>	45 100 100/200 ⁽¹¹⁾	6 4 2	MMSF6N01HD MMDF4N01HD MMDF2C01HD	1.5 1.5 1.5

Multiple Chip Products in SOIC — P-Channel

V _{(BR)DSS}	R _{DS(on)} @ V _{GS}			Ι _D	Motorola	P _D (3)
(V)	10 V (mΩ)	4.5 V (mΩ)	2.7 V (mΩ)	(A)	Part Number	(Watts) Max
30	200	220	_	2	MMDF2P03HD	1.5
20	90 250	95 400		3 2	MMSF3P02HD MMDF2P02E	1.5 1.5
12		80 180	90 200	4 2	MMSF4P01HD MMDF2P01HD	1.5 1.5

⁽³⁾ Power rating when mounted on an FR-4 glass epoxy printed circuit board with the minimum pad size recommended.

Devices listed in bold, italic are Motorola preferred devices.

⁽¹¹⁾ N-Channel/P-Channel RDS(on)

See Packaging Information under Technical Data Section for reel size, quantity and ordering information.