

TMOS™ Power MOSFET Cross Reference

This Cross Reference lists MOSFETs by either industry standard part number or by manufacturer's part number for which there is an ON Semiconductor nearest or similar replacement. For devices not listed, or for additional information, contact the nearest ON Semiconductor Franchised Distributor or your local ON Semiconductor Sales Office.

In this guide, the replacement columns provide the ON Semiconductor recommended nearest and/or similar replacement part. Where the industry device title and the ON Semiconductor nearest titles are the same, that type number is the current ON Semiconductor standard product. The substitution acceptability must be determined by the user as nearest or similar recommended device may differ in either electrical and/or mechanical characteristics. It is highly recommended that the ON Semiconductor data sheet be consulted to decide if the ON Semiconductor replacement could be an acceptable alternative in the user's application.

Complete listings of all standard parts currently available from ON Semiconductor are published in ON Semiconductor's Master Components Selector Guide (SG388/D) available from the Literature Distribution Center (LDC).

When viewing this electronically, the easiest way to locate the part you are trying to cross is to use the find command in Adobe Acrobat™ Reader. Once the device has been found, device specifications can be found in either the enclosed Low Voltage Surface Mount TMOS Power MOSFET Selector Guide (SG385/D) or in the ON Semiconductor Master Components Selector Guide (SG388/D).

Full device data sheets can be obtained through LDC or the ON Semiconductors website at:

<http://onsemi.com>

LDC contact information can be found on the back page of this Cross Reference.



ON Semiconductor

Formerly a Division of Motorola

<http://onsemi.com>

Industry Part Number	ON Semiconductor Replacement	ON Semi Similar Replacement
2SJ334		MTP50N06V
2SJ380		MTP12N10E
2SJ402	MTP50N06V	
2SJ412	MTP33N10E	
2SJ419	MMSF4P01HDR2	
2SJ420	MMSF4P01HDR2	
2SJ438		MTP3055VL
2SJ464		MTP27N10E
2SJ468	MMSF7P03HDR2	
2SJ469	MMSF7P03HDR2	
2SK2146		MTP3N25E
2SK2266	MTP60N06HD	
2SK2311	MTP36N06V	
2SK2314	MTP27N10E	
2SK2440	MMSF10N02ZR2	
2SK2441	MMSF10N02ZR2	
2SK2542	MTP8N50E	
2SK2544	MTP6N60E	
2SK2556	MMSF7N03HDR2	
2SK2603	MTP4N80E	
2SK2637	MMSF10N02ZR2	
2SK2661	MTP8N50E	
2SK2662	MTB4N50E	
2SK2841	MTP10N10E	
2SK2844	MTP1304	
2SK2866	MTP1N60E	
2SK2882	MTB20N15E	
2SK2914	MTP9N25E	
BSP250	MMFT4P03HD	
BUK452-100A		MTP10N10E
BUK452-100B		MTP10N10E

Legend

Prefix	Manufacturer
2SK, 2SJ, YT	Toshiba
BUK	Philips
BUZ	Siemens
FW	Sanyo
HAT	Hitachi
IRF	IR
MT, MG	Motorola
IXTH	IXYS
NDT	National
RF	Harris
SI, SUD, SUP	Siliconix
SSD, SF	Samsung
ST	SGS Thompson
uPA	NEC

Industry Part Number	ON Semiconductor Replacement	ON Semi Similar Replacement
BUK452-60A	MTP15N06V	
BUK452-60B		MTP3055V
BUK453-100A		MTP12N10E
BUK453-100B		MTP12N10E
BUK453-60A		
BUK454-200A	MTP20N20E	
BUK454-200B	MTP20N20E	
BUK454-400B		MTP4N40E
BUK454-500B	MTP4N50E	
BUK454-600B	MTP3N60E	
BUK454-800A	MTP4N80E	
BUK454-800B	MTP4N80E	
BUK455-100A	MTP27N10E	
BUK455-100B	MTP27N10E	
BUK455-200A	MTP20N20E	
BUK455-200B	MTP20N20E	
BUK455-400B		MTP5N40E
BUK455-500B		MTP4N50E
BUK455-600B		MTP3N60E
BUK455-60H	MTP50N06V	
BUK456-1000B	MTP3N120E	
BUK456-100A	MTP40N10E	
BUK456-100B	MTP33N10E	
BUK456-200A		MTP20N20E
BUK456-200B		MTP20N20E
BUK456-60A		MTP50N06V
BUK456-60B		MTP50N06V
BUK456-60H	MTP60N06HD	
BUK456-800A	MTP4N80E	
BUK456-800B	MTP4N80E	
BUK457-500B		MTP8N50E
BUK457-600B		MTP6N60E
BUK482-100	MMFT1N10E	
BUK483-60A	MMFT3055V	
BUK552-100A		
BUK552-100B		
BUK552-60B		MTP3055VL
BUK553-100B		
BUK553-60A		
BUK555-60A	MTP50N06VL	
BUK555-60H	MTP50N06VL	
BUK582-100A	MMFT1N10E	

Industry Part Number	ON Semiconductor Replacement	ON Semi Similar Replacement
BUK583-60A	MMFT3055VL	
BUZ21	MTP27N10E	
BUZ41A	MTB4N50E	
BUZ71		MTP15N05EL
BUZ71A		MTP15N05EL
BUZ72A	MTP12N10E	
BUZ80A	MTP4N80E	
FW101	MMDF2P01HDR2	
FW104	MMDF2P01HDR2	
FW201	MMDF4N01HDR2	
FW202	MMDF4N01HDR2	
FW203	MMDF6N03HDR2	
FW211	MMDF4N01HDR2	
HAT1001F	MMSF4P01HDR2	
HAT1002F	MMSF7P03HDR2	
HAT1005F	MMSF7P03HDR2	
HAT1007F	MMSF3P02HDR2	
HAT1008F	MMSF3P03HDR2	
HAT1020R	MMSF7P03HDR2	
HAT1024R	MMDF2P03HDR2	
HAT2001F	MMSF7N03HDR2	
HAT2003F	MMDF3N03HDR2	
HAT2005F	MMSF10N02ZR2	
HAT2007F	MMSF7N03HDR2	
HAT2016R	MMDF3N03HDR2	
HAT2020R	MMSF7N03HDR2	
HAT2027	MMDF6N02HDR2	
IRF510	IRF510	MTP12N10E
IRF510A	MTP10N10E	
IRF520	IRF520	MTP12N10E
IRF520A	MTP12N10E	
IRF530	IRF530	MTP27N10E
IRF530A	MTP27N10E	
IRF540	IRF540	MTP33N10E
IRF540A	MTP40N10E	
IRF550A	MTP40N10E	
IRF610	IRF610	MTP7N20E
IRF610A	MTP7N20E	
IRF614	MTP3N25E	
IRF614A	MTP3N25E	
IRF620	IRF620	MTP20N20E
IRF620A	MTP20N20E	

Industry Part Number	ON Semiconductor Replacement	ON Semi Similar Replacement
IRF624	MTP9N25E	
IRF624A	MTP9N25E	
IRF630	IRF630	MTP20N20E
IRF630A	MTP20N20E	
IRF634	MTP16N25E	
IRF634A	MTP16N25E	
IRF640	IRF640	MTP20N20E
IRF640A	MTP20N20E	
IRF644	MTP16N25E	
IRF644A		MTP16N25E
IRF710	IRF710	MTP2N40E
IRF7101	M MDF5N02ZR2	
IRF7102	M MDF2N05ZR2	
IRF7103	M MDF2N05ZR2	
IRF7104	M MDF2P02HDR2	
IRF7105	M MDF2C02HDR2	
IRF7106	M MDF2C02HDR2	
IRF7107	M MDF2C02HDR2	
IRF710A	MTP2N40E	
IRF720	IRF720	MTP4N40E
IRF7201	MMSF7N03HDR2	
IRF7202	MMSF3P02HDR2	
IRF7203	MMSF3P02HDR2	
IRF7204	MMSF3P02HDR2	
IRF7205	MMSF3P03HDR2	
IRF720A	MTP4N40E	
IRF730		MTP5N40E
IRF7301	M MDF5N02ZR2	
IRF7303	M MDF3N03HDR2	
IRF7306	M MDF2PN03HDR2	
IRF730A		MTP5N40E
IRF740	IRF740	MTP10N40E
IRF7401	MMSF5N02HDR2	
IRF7403	MMSF7N03HDR2	
IRF740A	MTP10N40E	
IRF7501	MTDF1N02HDR2	
IRF7503	MTDF1N03HDR2	
IRF7601	MTSF3N03HDR2	
IRF7603	MTSF3N03HDR2	
IRF7604	MTSF2P02HDR2	
IRF820	IRF820	MTP3N50E
IRF820A	MTP3N50E	

Industry Part Number	ON Semiconductor Replacement	ON Semi Similar Replacement
IRF830	IRF830	MTP4N50E
IRF830A	MTP8N50E	
IRF830S	MTB4N50E	
IRF840	IRF840	MTP8N50E
IRF840A	MTP8N50E	
IRF9510	MTP12P10	
IRF9520	MTP12P10	
IRF9530	MTP12P10	
IRF9610	MTP6P20E	
IRF9310		MTD1P40E
IRF9620	MTP6P20E	
IRF9Z14	MTP2955V	
IRF9Z24	MTP2955V	
IRF9Z34	MTP23P06V	
IRFBC20	MTP2N60E	
IRFBC30	MTP3N60E	
IRFBC40	MTP6N60E	
IRFBE20	MTP4N80E	
IRFBE30	MTP4N80E	
IRFBG30	MTP3N100E	
IRFL014	MMFT3055V	
IRFL4310	MMFT1N10E	
IRFL9014	MMFT2955E	
IRFM014A		MMFT3055V
IRFP140	MTW45N10E	
IRFP150		MTW45N10E
IRFP240	MTW32N20E	
IRFP244	MTW32N25E	
IRFP250	MTW32N20E	
IRFP254	MTW32N25E	
IRFP340	MTW16N40E	
IRFP350	MTW24N40E	
IRFP360	MTW24N40E	
IRFP440	MTW14N50E	
IRFP448	MTW14N50E	
IRFP450	MTW14N50E	
IRFP460	MTW20N50E	
IRFP470		MTW20N50E
IRFPC30	MTW7N80E	
IRFPC40	MTW7N80E	
IRFPC50		MTW7N80E
IRFPE30	MTW7N80E	

Industry Part Number	ON Semiconductor Replacement	ON Semi Similar Replacement
IRFPE40	MTW7N80E	
IRFPE50		MTW7N80E
IRFPG30	MTW6N100E	
IRFPG40	MTW6N100E	
IRFPG50	MTW10N100E	
IRFR014A	MTD15N06V	
IRFR024A	MTD20N06HD	
IRFR034A		MTD20N06HD
IRFR110A		
IRFR120A	MTD14N10E	
IRFR210		
IRFR210A		
IRFR214	MTD3N25E	
IRFR214A	MTD3N25E	
IRFR220		
IRFR220A		
IRFR224		
IRFR224A		
IRFR310	MTD2N40E	
IRFR310A	MTD2N40E	
IRFR320		MTD2N40E
IRFR320A		MTD2N40E
IRFR420		MTD2N50E
IRFR420A		MTD2N50E
IRFR9014	MTD2955V	
IRFR9024	MTD2955V	
IRFR9110		
IRFRC20		
IRFW510A	MTB33N10E	
IRFW520A	MTB33N10E	
IRFW530A	MTB33N10E	
IRFW540A	MTB33N10E	
IRFW550A	MTB40N10E	
IRFW610A	MTB20N20E	
IRFW614A	MTB9N25E	
IRFW620A	MTB20N20E	
IRFW624A	MTB9N25E	
IRFW630A	MTB20N20E	
IRFW634A		MTB9N25E
IRFW644A		
IRFW710A		
IRFW720A	MTB10N40E	

Industry Part Number	ON Semiconductor Replacement	ON Semi Similar Replacement
IRFW730A	MTB10N40E	
IRFW740A		MTB10N40E
IRFW820A	MTB8N50E	
IRFW830A	MTB8N50E	
IRFW840A		MTB8N50E
IRFWZ14		
IRFWZ14A		
IRFWZ24	MTB36N06V	
IRFWZ24A	MTB36N06V	
IRFWZ34	MTB36N06V	
IRFWZ34A	MTB36N06V	
IRFWZ44	MTB50N06V	
IRFWZ44A		
IRFZ14	MTP3055V	
IRFZ14A	MTP15N06V	
IRFZ24		
IRFZ24A	MTP36N06V	
IRFZ34	MTP36N06V	
IRFZ34A	MTP36N06V	
IRFZ40	MTP75N05HD	
IRFZ44	MTP60N06HD	
IRFZ44A	MTP60N06HD	
IRFZ46	MTP75N05HD	
IRL510		
IRL520		
IRLL014	MMFT3055VL	
IRLL110		MMFT1N10E
IRLM014A		MMFT3055VL
IRLR014		
IRLR024		
IRLR110		
IRLR120		
IRLZ14	MTP3055VL	
IRLZ24		
IRLZ34	MTP30N06VL	
IRLZ44		MTP50N06VL
IXTH12N50A	MTW14N50E	
IXTH21N50		MTW20N50E
IXTH24N50		MTW20N50E
IXTH5N100	MTW6N100E	
IXTH5N100A	MTW6N100E	
IXTH6N80	MTW7N80E	

Industry Part Number	ON Semiconductor Replacement	ON Semi Similar Replacement
IXTH6N80A	MTW7N80E	
MTP6N60	MTP6N60E	
NDS9400	MMSF3P02HDR2	
NDS9405	MMSF3P02HDR2	
NDS9410	MMSF7N03HDR2	
NDS9430	MMSF3P02HDR2	
NDS9435	MMSF3P03HDR2	
NDS9936	MMDF6N03HDR2	
NDS9947	MMDF2P02HDR2	
NDS9953	MMDF2P02HDR2	
NDS9955	MMDF5N02ZR2	
NDS9956	MMDF2N05ZR2	
NDSS9942	MMDF2C02HDR2	
NDSS9943	MMDF2C02HDR2	
NDSS9952	MMDF2C02HDR2	
NDSS9958	MMDF2C02HDR2	
NDT2955	MMFT2955E	
NDT3055	MMFT3055V	
NDT3055L	MMFT3055VL	
NDT452P	MMFT4P03HD	
RF1K49086	MMDF3N03HDR2	
RF1K49088	MMDF3N03HDR2	
RF1K49090	MMDF4N01HDR2	
RF1K49092	MMDF2C01HDR2	
RF1K49093	MMDF2P02HDR2	
RF1K49156	MMDF7N03HDR2	
RF1K49157	MMDF7N03HDR2	
SFP2955	MTP2955V	
SFP9510	MTP12P10	
SFP9520	MTP12P10	
SFP9530	MTP12P10	
SFP9610	MTP6P20E	
SFP9620	MTP6P20E	
SFP9Z14	MTP2955V	
SFP9Z24	MTP2955V	
SFP9Z34	MTP23P06V	
SFR2955	MTD2955V	
SFR9014		MTD5P06V
SFR9024	MTD2955V	
SFR9034		MTD20P06HDL
SFR9110		
SFW2955	MTB23P06V	

Industry Part Number	ON Semiconductor Replacement	ON Semi Similar Replacement
SFW9Z14	MTB23P06V	
SFW9Z24	MTB23P06V	
SFW9Z34	MTB23P06V	
Si3441DV	MGSF3441V	
Si3442DV	MGSF3442V	
Si3454DV	MGSF3454V	
Si3455DV	MGSF3455V	
Si4410DY	MMSF3300	
Si4412DY	MMSF7N03HD	
Si4418DY	MMSF3300	
Si4420DY		MMSF3300
si4425DY	MMSF3300	
Si4431DY		MMSF5N03HD
Si4435DY		MMSF7N03HD
Si4920DY		MMSF7N03HD
Si4925DY	MMSF7N03HD	
Si4936DY	MMDF6N03HD	
Si4953DY	MMSF5N03HD	
Si6436DQ	MTSF3N03HDR2	
Si6447DQ	MTSF2P02HDR2	
Si6956DQ	MTDF1N02HDR2	
Si9400DY	MMSF3P02HDR2	
Si9405DY	MMSF3P02HDR2	
Si9410DY	MMSF7N03HD	
Si9426DY	MMSF10N02ZR2	
Si9430DY	MMDF6N02HD	
Si9433DY	MMSF5N02HD	
Si9434DY	MMSF4P01HDR2	
Si9435DY	MMSF7P03HDR2	
Si9925DY	MMSF5N02HD	
Si9926DY	MMSF5N02HD	
Si9933DY	MMDF2P01HDR2	
Si9936DY	MMDF6N03HD	
Si9942DY	MMDF2C02HDR2	
Si9943DY	MMDF2C02HDR2	
Si9945DY	MMDF3N06HD	
Si9947DY	MMDF2P02HDR2	
Si9948AEY		MMDF3N06HD
Si9952DY	MMDF2C02HDR2	
Si9953DY		MMSF2P02E
Si9956DY		MMDF2N02E
Si9958DY	MMDF2C02HDR2	

Industry Part Number	ON Semiconductor Replacement	ON Semi Similar Replacement
SI9959DY	MMDF2N05ZR2	
SMB60N03-10L		MTB75N03HDL
SSD2002	MMDF2C02HDR2	
SSD2003	MMDF3N02HDR2	
SSD2005	MMDF2P02HDR2	
SSD2007	MMDF2N05ZR2	
SSD2009	MMDF2N05ZR2	
SSP1N50A		
SSP1N60A	MTP1N60E	
SSP2N60A	MTP2N60E	
SSP2N80A		MTP4N80E
SSP3N80A	MTP4N80E	
SSP4N60AS	MTP6N60E	
SSP4N80A	MTP4N80E	
SSP4N80AS		MTP4N80E
SSP7N60A		MTP6N60E
SSR1N50	MTD2N50E	
SSR1N50A	MTD2N50E	
SSR1N60A		
SSR2955	MTD2955V	
SSR3055A	MTD3055V	
SSW1N50A	MTB8N50E	
SSW1N60A		
SSW2N60A	MTB6N60E	
SSW4N60A	MTB6N60E	
STB10NA40	MTB10N40E	
STB11NB40		MTB10N40E
STB15N25		
STB16NB25		
STB18N20	MTB20N20E	
STB19NB20	MTB20N20E	
STB30N10	MTB40N10E	
STB50N06		
STB4N50E	MTB4N50E	
STB6NA60	MTB6N60E	
STB6NB50	MTB8N50E	
STB7NA40	MTB10N40E	
STB7NB40	MTB10N40E	
STB7NB60		MTB6N60E
STB80N05-09		MTB75N05HD
STB8NA50	MTB8N50E	
STB9NB50		MTB8N50E

Industry Part Number	ON Semiconductor Replacement	ON Semi Similar Replacement
STD12N06	MTD3055V	
STD12NE06	MTD15N06V	
STD12NE06L		
STD16NE06	MTD20N06V	
STD16NE06L		
STD17N06	MTD20N06V	
STD17N06L		
STD2NA50		MTD2N50E
STD4N20	MTD4N20E	
STD4N25		
STD4NB25		
STD5N20		
STD5NB20		
STD6N10		
STD8N06	MTD3055V	
STD8N06L	MTD3055VL	
STD9N10		MTD9N10E
STD9N10L		
STP10NA40	MTP10N40E	
STP11N10L		
STP11NB40		MTP10N40E
STP15N25	MTP16N25E	
STP16NB25	MTP16N25E	
STP16NE06		MTP15N06V
STP16NE06L		
STP19NB20	MTP20N20E	
STP20N10	MTP27N10E	
STP20NE10	MTP27N10E	
STP20NE06		
STP20NE06L		
STP25N06		MTP36N06V
STP2N60		MTP3N60E
STP2N80	MTP4N80E	
STP2NA50	MTP4N50E	
STP30N06		MTP36N06V
STP30NE06	MTP36N06V	
STP30NE06L	MTP30N06VL	
STP33N10	MTP33N10E	
STP38N06	MTP50N06V	
STP3N100	MTP3N100E	
STP3N60		MTP3N60E
STP3NA100		MTP3N100E

Industry Part Number	ON Semiconductor Replacement	ON Semi Similar Replacement
STP3NA50	MTP8N50E	
STP3NA60	MTP6N60E	
STP3NA80	MTP4N80E	
STP3NB60		MTP3N60E
STP40N03L-20		MTP1306
STP45N10		MTP40N10E
STP45NE06		MTP50N06V
STP45NE06L		MTP50N06VL
STP4N100		MTP3N100E
STP4N20	MTP7N20E	
STP4NA40	MTP10N40E	
STP4NA60	MTP6N60E	
STP4NA80	MTP4N80E	
STP50N06	MTP50N06V	
STP50N06L		MTP50N06VL
STP55N06	MTP60N06HD	
STP5NA50	MTP8N50E	
STP5NA60	MTP6N60E	
STP5NA80		MTP4N80E
STP5NB40		MTP4N40E
STP5NB60	MTP6N60E	
STP60N03L-10		MTP1306
STP60N06-14	MTP60N06HD	
STP60N06L-16		MTP60N06HD
STP60NE06-16	MTP60N06HD	
STP6N25	MTP9N25E	
STP6NA60	MTP6N60E	
STP6NB25	MTP9N25E	
STP7NA40	MTP10N40E	
STP7NA60		MTP6N60E
STP7NB20	MTP7N20E	
STP7NB60		MTP6N60E
STP80N03L-06		MTP1306
STP80N05-09	MTP75N05HD	
STP80N06-10	MTP75N06HD	
STP8NA50	MTP8N50E	
STP9N30	MTP10N40E	
STP9NA50	MTP8N50E	
STPNB50		MTP8N50E

Industry Part Number	ON Semiconductor Replacement	ON Semi Similar Replacement
STW10NA50	MTW14N50E	
STW12NA50	MTW14N50E	
STW12NA60		MTW8N60E
STW14NB50	MTW14N50E	
STW15NA50	MTW20N50E	
STW15NB50	MTW20N50E	
STW16NA40	MTW16N40E	
STW18NB40	MTW24N40E	
STW20NA50	MTW20N50E	
STW20NB50	MTW20N50E	
STW26N25	MTW32N25E	
STW33N20	MTW32N20E	
STW34NB20		MTW32N20E
STW50N10		MTW45N10E
STW5NA100	MTW6N100E	
STW6NA80	MTW7N80E	
STW7NA100	MTW10N100E	
STW7NA80	MTW7N80E	
STW8NA60	MTW8N60E	
STW8NA80	MTW7N80E	
STW9NA80		MTW7N80E
SUB40N06-18		MTB55N06Z
SUB40N06-25L		MTB52N06VL
SUB70N06-14	MTB75N06HD	
SUD10P06-280L	MTD20P03HDL	
SUD15N06-90L	MTD20N06HDL	
SUP60N06-14	MTP60N06HD	
SUP60N06-18	MTP60N06HD	
SUP70N06-14		MTP60N06HD
SUP75N06-08	MTP75N06HD	
uPA1700	MMSF7N03HDR2	
uPA1701	MMSF10N02ZR2	
VN66AD	MTP3055V	
YTF520	MTP10N10E	
YTF532	MTP12N10E	
YTF533	MTP3055E	
YTF632	MTP7N20E	
YTF822		
YTF832	MTP4N50E	

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