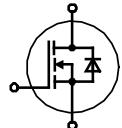


CoolMOS™ Power MOSFETs

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K Series - CoolMOS™

Part Type ○ Not for new design ➤ New	V _{DSS} V	I _{D25} T _C = 25°C A	R _{DS(on)} T _J = 25°C Ω	Q _g typ. nC	R _{thJC} K/W	V _{ISOL} RMS V	Fig. No.	Package style Outline drawings on pages O-30...O-55
C3 Series								
IXKC 20N60C	600	14	0.19	80	1.00	2500	X010a	X005a TO-220AB
○ IXKC 40N60C		24	0.096	160	0.50	2500	X010a	X009a PLUS220
IXKR 40N60C		38	0.07	250	0.45	2500	X016a	X010a ISOPLUS220™
IXKN 40N60C		40	0.07	250	0.43	2500	X027a	X013 PLUS220SMD
IXKH 47N60C		47	0.07	250	0.30	-	X014a	X014a TO-247AD
IXKN 75N60C		75	0.036	500	0.22	2500	X027a	X016a ISOPLUS247™
IXKK 85N60C		85	0.036	540	0.18	-	X020a	X020a TO-264
IXKC 13N80C	800	13	0.29	85	0.96	2500	X010a	X022c ISOPLUS264
○ IXKC 25N80C		20	0.15	180	0.90	2500	X010a	X024a ISOPLUS i4-PAC™
IXKR 25N80C		25	0.15	170	0.50	2500	X016a	X024c ISOPLUS i4-PAC™
IXKN 45N80C		44	0.074	335	0.33	2500	X027a	X027a SOT-227B miniBLOC
C5 Series								
IXKP 10N60C5	600	10	0.385	17	1.15	-	X005a	
○ IXKP 13N60C5M		6.5	0.3	22	3.85	-	X007a	
○ IXKP 20N60C5		20	0.2	32	0.60	-	X005a	
○ IXKH 20N60C5		20	0.2	32	0.60	-	X014a	
○ IXKC 15N60C5		15	0.165	40	1.10	2500	X010a	
○ IXKP 24N60C5		24	0.165	40	0.50	-	X005a	
○ IXKP 24N60C5M		8.5	0.165	40	3.65	-	X007a	
○ IXKH 24N60C5		24	0.165	40	0.50	-	X014a	
○ IXKH 30N60C5		30	0.125	53	0.40	-	X014a	
IXKH 35N60C5		35	0.1	60	0.35	-	X014a	
IXKR 47N60C5		47	0.045	150	0.45	2500	X016a	
IXKH 70N60C5		70	0.045	150	0.20	-	X014a	
IXKT 70N60C5		66	0.045	150	0.23	-	X019	
CoolMOS™ Configurations in i4-PAC™								
MKE..R..DCG..								
IXKF								
FDM								
FMD								
LKK								
Part Type ✧ under development ➤ New	V _{DSS} V	I _{D25} T _C = 25°C A	R _{DS(on)} max. T _J = 25°C Ω	Q _g typ. nC	R _{thJC} K/W	Config.	Fig. No.	
IXKF 40N60SCD1	600	38	0.07	250	0.45	single	X024c	
➤ IXKF 40N60SCH1		41	0.07	250	0.45	single		
✧ IXKF 40N60SCC1 ¹⁾		41	0.07	250	0.45	single		
MKE 11R600DCGFC ¹⁾	600	15	0.165	40	1.1	boost	X024a	
FMD 15-06KC5		15	0.165	40	1.1	boost		
FMD 40-06KC		38	0.07	250	0.45	boost		
FMD 47-06KC5		47	0.045	150	0.45	boost		
FDM 15-06KC5	600	15	0.165	40	1.1	buck		
FDM 47-06KC5		47	0.045	150	0.45	buck		
¹⁾ with SiC Boost Diode								
Configuration in ISOPLUS264™ Package								
LKK 47-06C5	600	2 x 47	0.045	150	0.45	dual	X022c	