

SiC FET User Guide

Product Name	Package	Vdsmax	Id (25C)	Id (100C)	RthjC (Typ)	Rds(25C)	Rds(125C)	Rds(175C)	Gate Drive voltage positive rail RGON				Gate Drive voltage negative rail RGOFF		RC snubber	Rsnub	Csnub	Esnub @ 10A	Esnub @ 30A	P _{tot} (Coss(er))	Hard switched applications. Active rectifier, Totem Pole PFC, Full-bridge etc.			ZVS applications LLC		ZVS applications PSFB				
									10V	12V	15V	20V	0V	-5V							Upto 20kHz	20-100kHz	>100kHz	50-150kHz	150-500kHz	20-50kHz	50-200kHz			
Units		V	A	A	C/W	mΩ	mΩ	mΩ	Ω	Ω	Ω	Ω	Ω	Ω	Ω	pF	μJ	μJ	W	W	W	X	X	X	X	X	X	X	X	X
UJ3C065080T3S	TO220-3L	650	31	23	0.61	80	110	140	5	10	20	30	5	10	Optional	5	220				77	X				X		X		
UJ3C065080K3S	TO247-3L	650	31	23	0.61	80	110	140	5	10	20	30	5	10	Optional	5	220					X				X		X		
UJ3C065080B3	D2PAK-3L	650	25	18.2	1	80	110	140	5	10	20	30	5	10	Optional	5	220					X				X		X		
UF3C065080T3S	TO220-3L	650	31	23	0.61	80	110	140	5	10	20	30	10	20	Required	5	220						X							
UF3C065080K3S	TO247-3L	650	31	23	0.61	80	110	140	5	10	20	30	10	20	Required	5	220						X							
UF3C065040T3S	TO220-3L	650	54	40	0.35	42	58	78	5	10	20	30	10	20	Required	5	330	16.0	23.0	150			X				X	X	X	X
UF3C065040K3S	TO247-3L	650	54	40	0.35	42	58	70	5	10	20	30	10	20	Required	5	330					X				X	X	X	X	X
UJ3C065030T3S	TO220-3L	650	85	62	0.26	27	35	43	5	10	20	50	5	10	Optional	5	660					230	X			X		X		
UJ3C065030K3S	TO247-3L	650	85	62	0.26	27	35	43	5	10	20	50	5	10	Optional	5	660	13.8	20.3			X			X		X			
UJ3C065030B3	D2PAK-3L	650	66	47	0.48	27	35	43	5	10	20	50	5	10	Optional	5	660					X			X		X			
UF3C065030T3S	TO220-3L	650	85	62	0.26	30	39	48	5	10	20	30	10	20	Required	5	660	15.8	22.5				X			X	X	X	X	X
UF3C065030K3S	TO247-3L	650	85	62	0.26	30	39	48	5	10	20	30	10	20	Required	5	660						X			X	X	X	X	X
UJ3C120150K3S	TO247-3L	1200	18.4	13.8	0.7	150	255	330	5	10	20	30	5	10	Optional	5	100					34	X			X		X		
UF3C120150K3S	TO247-3L	1200	18.4	13.8	0.7	150	255	330	5	10	20	30	10	20	Required	5	100							X			X			
UJ3C120080K3S	TO247-3L	1200	33	24	0.45	80	136	172	5	10	20	30	5	10	Optional	5	150	5.0	8.0			59	X			X		X		
UF3C120080K3S	TO247-3L	1200	33	24	0.45	80	136	172	5	10	20	30	10	20	Required	5	150							X			X			
UJ3C120040K3S	TO247-3L	1200	65	47	0.27	35	56	73	5	10	20	30	5	10	Optional	5	330	14.7	21.6			112	X			X		X		
UF3C120040K3S	TO247-3L	1200	65	47	0.27	35	56	73	5	10	20	30	10	20	Required	5	330	16.1	23.5					X			X			