	Specification	S	ymbol	Condition / Comment						HTS 901-15 GSM- SiC Unit		
	Maximum Operating Voltage	V	O(max)	I_{off} < 40 μ ADC, T_{case} = 70°C						90	kVDC	
SĐ	Maximum Isolation Voltage V ₁			Between HV switch and control / GND, continuously						± 110	kVDC	
	Max. Housing Insulation Volta		INS	Between switch and housing surface, 3 minutes						± 140	kVDC	
RATIN	Maximum Turn-On Peak Current I _{P(max)}			T _{case} =	t _p < 200 μs,					150		
2				25°C	t _p < 1 ms, du					90	ADC	
					t _p < 10 ms, 0					26 15		
2	Maximum Continuous Load Current IL (max)			tp< 100 ms, duty cycle <1%						2.52	ADC	
MAXIMUM	Maximum Continuous Load Current I _{L(max)}			25°C Devices with option DLC						35	ADC	
A	Max. Continuous Power Dissipation P _{d(max)}			T _{case} = Standard devices & FC, forced air 4 m/s						60		
	u(max)			25°C Devices with option DLC						4000	Watt	
5	Linear Derating			Above	Standard de	evices & F	C, forced air 4	m/s		0.12		
700				25°C	Devices wit					80	W/K	
4BSOLUTE			0				CF, ILC. (Optio			-4075	C°	
			S	Switches with option ILC may require frost protection!						-5090	C°	
	Max. Permissible Magnetic Field			Homogeneous steady-field, surrounding the whole switch				e switch	_	25	MT VDC	
_	Max. Auxilliary Voltage Permissible Operating Voltage Range		aux	Built-in overvoltage limiter (replaceable)						5	kVDC	
	Typical Breakdown Voltage		br	NOTE: Va. i	is a tost narar	neter for a	ıality .		-	90	+	
	-		br	NOTE: V_{br} is a test parameter for quality control purposes only. Not applicable in $I_{off} > 0.5 \text{ mA}$			99	kVDC				
	Typical Off-State Current		ff	0.8xV ₀ , T _{case} =2570°C, reduced l _{off} on request				< 40	μADO			
	Typical Turn-On Resistance		stat	Each switching path 0.1 x I _{P(max)} , T _{case} =25°C						3.6		
	Typical Propagation Delay Time			t _p < 1μs, duty cycle < 1% 1.0 x I _{P(max)} , T _{case} =25°C					5.8 14	Ohm		
			(on)	1.0 x _{P(max)} , T _{case} =70°C Resistive load, 0.1 x _{P(max)} , 0.8 x V _{O(max)} , 50-50%					-	200	Ohm ns	
	Typical Output Pulse Jitter		(on)	Impedance matched input, V _{aux} /					3	ns		
	Typical Turn-On/Off Rise Time		(on)/		oad, 10-90%					110	110	
			(off)				$0.8 \times V_{O(max)}$, $I_L = 0.1 \times I_{p(max)}$			120		
60			,		$0.8 \times V_{O(max)}$, $I_L = 1.0 \times I_{p(max)}$					140	ns	
3	Maximum Turn-On Time		n(max)	No limitation			1			∞		
CTERISTICS	Minimum Turn-On Time ton(mir		n(min)	ton(min) can be customized. Please consult factory						220	ns	
ER	Maximum Turn-Off Time toff(max			No limitation						∞		
_	Minimum Turn-Off Time toff(min)			toff(min) can be customized. Please consult factory (a) V _{aux} = 5.00 V Standard devices without HFS option					_	220	ns	
CHARA	Max. Continuous Switching f _(max)									< 2 30		
E	Trequency		sw. shutdown i exceeded	Sw. shutdown if f _(max) is Standard devices with HFS supply Opt. HFS + sufficient cooling option					70	kHz		
Ĭ.	Maximum Burst Frequency f _{b(max)}			Use option HFB for >10 pulses within 20µs or less						400	kHz	
ECTRICAL	Maximum Number of Pulses / Burst N _(max)			@f _{b(max)} Standard						>10 Use option HFB for >10	Pulse	
7	()			Note: Option HFB requires external buffer capacitors with a voltage Option I-HFB						>100		
				rating of > 630V	DC and a cpacitano	e of 100nF per	additional	Option HFB		>1000		
EL	1 0 1		c	HV side against control side						<50	pF	
			N	Between switch poles, @ $0.5 \times V_{O(max)}$ The V_{ctrl} has no impact on the output pulse shape.						<20	pF	
	Control Voltage Range V _{ctrl} Auxiliary Supply Voltage Range V _{aux}						tput puise snap the HFS mod		-	3 10 5	VDC VDC	
	Auxiliary Supply Voltage Range		ux) VDC, T _{case} =		I LIE HES IIIOU	0.01 x f _(max)		> 250	VDC	
	Typical Auxiliary Supply Current		ux							800		
	Fault Signal Output				ent ilmitation a	DOVE TA.		(Q) T(max)			mAD(
	Fault Signal Output				ent limitation a be turn off, if		_{aux} <4.75V or T _o	@ f _(max)			mAD(
	Fault Signal Output			Switch will		f f>f _(max) , V	_{aux} <4.75V or T _o			H=4V, L=0.5V		
	Opt. HFS, Ext. Supply Voltag		HFS(V1)	Switch will Fault cond Stability ±3	be turn off, if lition is indica 3%, current c	f f>f _(max) , V ted by a lo consumption	ogical "L" on <0.4 mA/kH	z @ 25°C				
	Opt. HFS, Ext. Supply Voltag Opt. HFS, Ext. Supply Voltag	ge V2 Vi	HFS(V2)	Switch will Fault cond Stability ±3 Stability ±3	be turn off, if lition is indica 3%, current c 3%, current c	f f>f _(max) , V ated by a lo consumption	ogical "L"	z @ 25°C		H=4V, L=0.5V 15 170	VDC VDC VDC	
	Opt. HFS, Ext. Supply Voltag Opt. HFS, Ext. Supply Voltag Intrinsic Diode Forward Volta	ge V2 Vi	HFS(V2)	Switch will Fault cond Stability ±3 Stability ±3 T _{case} = 25°	be turn off, if lition is indica 3%, current c 3%, current c C, I _F = 0.3 x	f f>f _(max) , V ted by a lo consumption consumption I _{P(max)}	ogical "L" on <0.4 mA/kH: on <0.9 mA/kH:	z @ 25°C		H=4V, L=0.5V 15 170 120	VDC VDC VDC VDC	
	Opt. HFS, Ext. Supply Voltag Opt. HFS, Ext. Supply Voltag Intrinsic Diode Forward Volta Diode Reverse Recovery Tim	ge V2 Vi age Vi ne t _{rrr}	HFS(V2)	Switch will Fault cond Stability ±3 Stability ±3 Tcase = 25° Tcase = 25°	be turn off, if lition is indica 3%, current c 3%, current c C, I _F = 0.3 x C, I _F = 0.3 x	f f>f _(max) , V ted by a lo consumption consumption I _{P(max)}	ogical "L" on <0.4 mA/kH: on <0.9 mA/kH:	z @ 25°C		H=4V, L=0.5V 15 170	VDC VDC VDC	
5	Opt. HFS, Ext. Supply Voltag Opt. HFS, Ext. Supply Voltag Intrinsic Diode Forward Volta	ge V2 Vi age Vi ne t _{rrr}	HFS(V2)	Switch will Fault cond Stability ±3 Stability ±3 Tcase = 25° Tcase = 25° Standard h	be turn off, if lition is indica 3%, current c 3%, current c C , $I_F = 0.3 x$ C , $I_F = 0.3 x$ nousing	f f>f _(max) , V ted by a lo consumption consumption l _{P(max)} , di/d	ogical "L" on <0.4 mA/kH: on <0.9 mA/kH: t = 100 A/µs	z @ 25°C z @ 25°C		H=4V, L=0.5V 15 170 120 <50 Please contact the	VDC VDC VDC VDC ns	
ING	Opt. HFS, Ext. Supply Voltag Opt. HFS, Ext. Supply Voltag Intrinsic Diode Forward Volta Diode Reverse Recovery Tim	ge V2 Vi age Vi ne t _{rrr}	HFS(V2)	Switch will Fault cond Stability ±3 Stability ±3 T _{case} = 25° T _{case} = 25° Standard h Devices wi	be turn off, if lition is indica 3%, current c 3%, current c C, $I_F = 0.3 x$ C, $I_F = 0.3 x$ nousing ith option CF,	f f>f _(max) , V ted by a lo consumptic consumptic l _{P(max)} l _{P(max)} , di/d	ogical "L" on <0.4 mA/kH: on <0.9 mA/kH:	z @ 25°C z @ 25°C		H=4V, L=0.5V 15 170 120 <50	VDC VDC VDC VDC	
USING	Opt. HFS, Ext. Supply Voltag Opt. HFS, Ext. Supply Voltag Intrinsic Diode Forward Volta Diode Reverse Recovery Tim Dimensions	ge V2 Vi age Vi ne t _{rrr}	HFS(V2)	Switch will Fault cond Stability ±3 Stability ±3 T _{case} = 25° T _{case} = 25° Standard h Devices w Devices w	be turn off, it lition is indica 3%, current c 3%, current c C, $I_F = 0.3 \times$ C, $I_F = 0.3 \times$ nousing ith option CF, ith option DL(f f>f _(max) , V ted by a lo consumptic consumptic l _{P(max)} l _{P(max)} , di/d	ogical "L" on <0.4 mA/kH: on <0.9 mA/kH: t = 100 A/µs	z @ 25°C z @ 25°C		H=4V, L=0.5V 15 170 120 <50 Please contact the manufactured!	VDC VDC VDC VDC ns	
HOUSING	Opt. HFS, Ext. Supply Voltag Opt. HFS, Ext. Supply Voltag Intrinsic Diode Forward Volta Diode Reverse Recovery Tim	ge V2 Vi age Vi ne t _{rrr}	HFS(V2)	Switch will Fault cond Stability ±3 Stability ±3 T _{case} = 25° T _{case} = 25° Standard h Devices w Devices w Standard h	be turn off, it litton is indicading the following between the control of the following the followi	f f>f _(max) , V ted by a lo consumptio consumptio l _{P(max)} l _{P(max)} , di/d , non-isola	ogical "L" on <0.4 mA/kH: on <0.9 mA/kH: t = 100 A/µs	z @ 25°C z @ 25°C		H=4V, L=0.5V 15 170 120 <50 Please contact the manufactured!	VDC VDC VDC VDC ns mm³	
HOUSING	Opt. HFS, Ext. Supply Voltag Opt. HFS, Ext. Supply Voltag Intrinsic Diode Forward Volta Diode Reverse Recovery Tim Dimensions Weight	ge V2 Vi gge Vi ne t _{rr}	HFS(V2) F rc xWxH	Switch will Fault cond Stability ±3 Stability ±3 Tcase = 25° Tcase = 25° Standard h Devices w Devices w Standard h Devices w Devices w Devices w Devices w Devices w	be turn off, if lition is indica 3%, current c 3%, current c C, I _F = 0.3 x C, I _F = 0.3 x c c c c c c c c c c c c c c c c c c	f f>f _(max) , V ted by a la consumption land land land land land land land land	ogical "L" on <0.4 mA/kH; on <0.9 mA/kH; t = 100 A/µs ted cooling fin:	Z @ 25°C Z @ 25°C		H=4V, L=0.5V 15 170 120 <50 Please contact the manufactured! Please contact the manufactured!	VDC VDC VDC VDC ns	
HOUSING	Opt. HFS, Ext. Supply Voltag Opt. HFS, Ext. Supply Voltag Intrinsic Diode Forward Volta Diode Reverse Recovery Tim Dimensions Weight Control Signal Input P	ge V2 Vi gge Vi ne trr Lx	F c xWxH	Switch will Fault cond Stability ±3 Stability ±3 T _{case} = 25° Standard Provices who Devices who Devic	be turn off, it litton is indica 3% , current c 3% , current c 3% , current c 3% , current c 3% , 1% , 1% , 1% 1% 1% 1% 1% 1% 1% 1%	f f>f _(max) , V ted by a la consumptio consumptio l l l l max), di/d , non-isola C gger chara	ogical "L" on < 0.4 mA/kH; on < 0.9 mA/kH; t = 100 A/µs sted cooling fin: ted cooling fin: cteristics. Con	z @ 25°C z @ 25°C s s trol voltage 2-1		H=4V, L=0.5V 15 170 120 <50 Please contact the manufactured! Please contact the manufactured!	VDC VDC VDC VDC ns mm³	
	Opt. HFS, Ext. Supply Voltag Opt. HFS, Ext. Supply Voltag Intrinsic Diode Forward Volta Diode Reverse Recovery Tim Dimensions Weight Control Signal Input Logic GND / 5V Return P	pe V2 Vigge Vinge	F c xWxH	Switch will Fault cond Stability ±: Stability ±: T _{case} = 25° Standard Provices with Devices wi	be turn off, it litton is indica 3%, current c 3%, current c C, I _F = 0.3 x rousing ith option CF, ith option DL0 a Schmitt-Trigernally conne	f f>f _(max) , V ted by a la consumptio consumptio lP(max) lP(max), di/d , non-isola C gger chara acted with	ogical "L" on < 0.4 mA/kH; on < 0.9 mA/kH; on < 0.9 mA/kH; t = 100 A/µs atted cooling fine ted cooling fine cteristics. Con the safety eart	z @ 25°C z @ 25°C s s trol voltage 2-1 hing terminal (i	threaded i	H=4V, L=0.5V 15 170 120 <50 Please contact the manufactured! Please contact the manufactured! Please contact the manufactured!	VDC VDC VDC VDC ns mm³	
	Opt. HFS, Ext. Supply Voltag Opt. HFS, Ext. Supply Voltag Intrinsic Diode Forward Volta Diode Reverse Recovery Tim Dimensions Weight Control Signal Input Logic GND / 5V Return 5V Auxiliary Supply Peter Structure Peter P	Pin 1 / Yellow. T Pin 2 / Black. Th Pin 3 / Red. The	FFS(V2) FF TC TTL conne grou	Switch will Fault cond Stability ±: Stability ±: Tcase = 25° Tcase = 25° Standard Properties with Devices wit	be turn off, it litton is indica 3% , current c 3% , current c C , $I_F = 0.3 \times 10^{-2}$ c $I_F = $	f f>f _(max) , V ted by a lo consumptio consumptio lP(max) lP(max), di/d , non-isola C gger chara coted with up to the s	ogical "L" on < 0.4 mA/kH; on < 0.9 mA/kH; on	z @ 25°C z @ 25°C s s trol voltage 2-1 hing terminal (t frequency f _{(max}	threaded in). Higher re	H=4V, L=0.5V 15 170 120 <50 Please contact the manufactured! Please contact the manufactured! // recommended for low jitter). nsert) on bottom side. ep rates require option HFS.	VDC VDC VDC VDC ns mm³	
	Opt. HFS, Ext. Supply Voltag Opt. HFS, Ext. Supply Voltag Intrinsic Diode Forward Volta Diode Reverse Recovery Tim Dimensions Weight Control Signal Input Logic GND / 5V Return 5V Auxiliary Supply Fault Signal Output P	Pin 1 / Yellow. T Pin 2 / Black. Th Pin 3 / Red. The Pin 4 / Orange.	FF C XWXH	Switch will Fault cond Stability ±: Stability ±: T _{case} = 25° T _{case} = 25° Standard r Devices w Devices w Devices w Devices with the put is used to the standard reput; short conditions to the standard rep	be turn off, it litton is indica 3% , current c 3% , current c C , $I_F = 0.3 \times C$, $I_$	f f>f _(max) , V ted by a lo consumptio consumptio lP(max) lP(max), di/d , non-isola C gger chara ected with up to the s ndicating s	ogical "L" on < 0.4 mA/kH; on < 0.9 mA/kH; on	z @ 25°C z @ 25°C z @ 25°C s s trol voltage 2-1 hing terminal (if frequency f _{(max,} over-heat, ove	threaded in). Higher re er-frequence	H=4V, L=0.5V 15 170 120 <50 Please contact the manufactured! Please contact the manufactured! / recommended for low jitter). nsert) on bottom side. ep rates require option HFS. cy, low auxiliary voltage. L = Fault.	VDC VDC VDC VDC ns mm³	
	Opt. HFS, Ext. Supply Voltag Opt. HFS, Ext. Supply Voltag Intrinsic Diode Forward Volta Diode Reverse Recovery Tim Dimensions Weight Control Signal Input Logic GND / 5V Retum 5V Auxiliary Supply Fault Signal Output Inhibit Signal Input P	Pin 1 / Yellow. T Pin 2 / Black. Th Pin 3 / Red. The Pin 4 / Orange. Pin 5 / Green. T	HFS(V2) F C XWXH TTL conne grou E 5 V in TTL ou TTL con	Switch will Fault cond Stability ±: Stability ±: T _{case} = 25° T _{case} = 25° Standard r Devices w Devices w Devices w Devices w Devices w to be	be turn off, it litton is indica 3%, current c 3%, current c C, I _F = 0.3 x C, I _F = 0.3 x cousing ith option CF, ith option DL on ousing ith option DL on Schmitt-Trigernally conne for rep rates circuit proof. In hmitt-Trigger	f f>f _(max) , V ted by a lo consumptio consumptio lP(max) lP(max). di/d , non-isola C gger chara ected with up to the s ndicating s characteri	ogical "L" on < 0.4 mA/kH; on < 0.9 mA/kH; on	z @ 25°C z @ 25°C s strol voltage 2-1 hing terminal (iffrequency f _{(max, over-heat, over-heat, over-nection of ex}	threaded in . Higher re er-frequence ternal safe	H=4V, L=0.5V 15 170 120 <50 Please contact the manufactured! Please contact the manufactured! // recommended for low jitter). nsert) on bottom side. ep rates require option HFS. cy, low auxiliary voltage. L = Fault. ety circuits. L = Switch Inhibited.	VDC VDC VDC VDC ns mm³	
FUNCTIONS HOUSING	Opt. HFS, Ext. Supply Voltag Opt. HFS, Ext. Supply Voltag Intrinsic Diode Forward Volta Diode Reverse Recovery Tim Dimensions Weight Control Signal Input Logic GND / 5V Retum 5V Auxiliary Supply Fault Signal Output Inhibit Signal Input LED Indicators G	Pin 1 / Yellow. T Pin 2 / Black. Th Pin 3 / Red. The Pin 4 / Orange. Pin 5 / Green. T GREEN: "Auxilia"	TTL conne grou TTL our TTL comrey for the connert our our TTL comrey for the connert our	Switch will Fault cond Stability ±: Stability ±: T _{case} = 25° T _{case} = 25° Standard h Devices w Devices	be turn off, it litton is indica 3%, current c 3%, current c 3%, current c C, I _F = 0.3 x C, I _F = 0.3 x c c c c c c c c c c c c c c c c c c	f f>f _(max) , V ted by a lo consumptio consumptio lp _(max) , di/d , non-isola C gger chara ected with up to the s ndicating s characteri YELLOW:	ogical "L" on < 0.4 mA/kH; on < 0.9 mA/kH; on	z @ 25°C z @ 25°C s s trol voltage 2-1 hing terminal (iffrequency f _{(max} over-heat, overnnection of ex Il received, swi	threaded in thigher reservences ternal safet toth ON".	H=4V, L=0.5V 15 170 120 <50 Please contact the manufactured! Please contact the manufactured! // recommended for low jitter). nsert) on bottom side. prates require option HFS. cy, low auxiliary voltage. L = Fault. ety circuits. L = Switch Inhibited. RED: "Fault condition, switch OFF"	VDC VDC VDC VDC ns mm³	
	Opt. HFS, Ext. Supply Voltag Opt. HFS, Ext. Supply Voltag Intrinsic Diode Forward Volta Diode Reverse Recovery Tim Dimensions Weight Control Signal Input Logic GND / 5V Return 5V Auxiliary Supply Fault Signal Output Inhibit Signal Input LED Indicators Temperature Protection A	Pin 1 / Yellow. T Pin 2 / Black. Th Pin 3 / Red. The Pin 4 / Orange. Pin 5 / Green. T GREEN: "Auxilia A) Standard swith	TTL conne grou TTL com	Switch will Fault cond Stability ±: Stability ±: Tcase = 25° Standard I Devices w D	be turn off, it litton is indica 3%, current c 3%, current c 3%, current c C, I _F = 0.3 x C, I _F = 0.3 x c c c c c c c c c c c c c c c c c c	f f>f _(max) , V ted by a lo consumptic consumptic lp(max) lp(max), di/d , non-isola C gger chara ected with up to the s ndicating s characteri YELLOW: F, GCF: Ti	ogical "L" on < 0.4 mA/kH; on < 0.9 mA/kH; on	z @ 25°C z @ 25°C z @ 25°C s s trol voltage 2-1 hing terminal (if frequency f _{(max} over-heat, over- nnection of ex il received, swi 5°C, response	threaded in the state of the st	H=4V, L=0.5V 15 170 120 <50 Please contact the manufactured! Please contact the manufactured! Please contact the manufactured! // recommended for low jitter). nsert) on bottom side. proper rates require option HFS. cy, low auxiliary voltage. L = Fault. ety circuits. L = Switch Inhibited. RED: "Fault condition, switch OFF" s @ 3xPd(max), \(\Delta T=25K\) (50 to 75°C). Separate d	VDC VDC VDC VDC ns mm³	
	Opt. HFS, Ext. Supply Voltag Opt. HFS, Ext. Supply Voltag Intrinsic Diode Forward Volta Diode Reverse Recovery Tim Dimensions Weight Control Signal Input Logic GND / 5V Return 5V Auxiliary Supply Fault Signal Output Inhibit Signal Input LED Indicators Temperature Protection P	Pin 1 / Yellow. T Pin 2 / Black. Th Pin 3 / Red. The Pin 4 / Orange. Pin 5 / Green. T GREEN: "Auxilia A) Standard switt protection. B) Swi	FTL conne groue 5 V in TTL comary powtches aritches with the second control of the secon	Switch will Fault cond Stability ±: Stability ±: Tcase = 25° Standard r Devices w Devi	be turn off, it litton is indica 3%, current c 3%, current c 3%, current c C, I _F = 0.3 x C, I _F = 0.3 x rousing ith option CF, ith option DL in Schmitt-Trigger of the option of the	f f>f _(max) , V ted by a lo consumptic consumptic lp(max) lp(max), di/d , non-isola C gger chara gected with up to the s ndicating s characteri YELLOW: F, GCF: Th ponse time	ogical "L" on < 0.4 mA/kH: on < 0.9 mA/kH: on	z @ 25°C z @ 25°C z @ 25°C s s trol voltage 2-1 hing terminal (frequency f _{(max} over-heat, over-he	threaded in threaded in the higher reference of the hi	H=4V, L=0.5V 15 170 120 <50 Please contact the manufactured! Please contact the manufactured! Please contact the manufactured! // recommended for low jitter). nsert) on bottom side. per rates require option HFS. cy, low auxiliary voltage. L = Fault. ety circuits. L = Switch Inhibited. RED: "Fault condition, switch OFF" s @ 3xPd(max), ΔT=25K (50 to 75°C). Separate d c), coolant flow > 3l / min. Separate driver protection.	VDC VDC VDC VDC ns mm³	
FUNCTIONS	Opt. HFS, Ext. Supply Voltag Opt. HFS, Ext. Supply Voltag Intrinsic Diode Forward Volta Diode Reverse Recovery Tim Dimensions Weight Control Signal Input Logic GND / 5V Return 5V Auxiliary Supply Fault Signal Output Inhibit Signal Input LED Indicators Temperature Protection P	Pin 1 / Yellow. T Pin 2 / Black. Th Pin 3 / Red. The Pin 4 / Orange. Pin 5 / Green. T GREEN: "Auxilia A) Standard swith	FE CONTROLL OF THE CONTROLL OF	Switch will Fault cond Stability ±: Stability ±: T _{case} = 25° Standard In Devices who	be turn off, it litton is indica 3%, current c 3%, current c C, I _F = 0.3 x C, I _F = 0.3 x c c c c c c c c c c c c c c c c c c	f f>f _(max) , V ted by a lo consumptio consumptio lp(max), di/d lp(max), di/d , non-isola C gger chara ected with up to the s indicating s characteri YELLOW: F, GCF: Th ponse time lter for increas	ogical "L" on < 0.4 mA/kH; on < 0.9 mA/kH; on	z @ 25°C z @ 25°C z @ 25°C s s trol voltage 2-1 hing terminal (iffrequency f _{(max} over-heat, over-	threaded in the state of the st	H=4V, L=0.5V 15 170 120 <50 Please contact the manufactured! Please contact the manufactured! Please contact the manufactured! / recommended for low jitter). nsert) on bottom side. prates require option HFS. cy, low auxiliary voltage. L = Fault. sty circuits. L = Switch Inhibited. RED: "Fault condition, switch OFF" s @ 3xPd(max), \(\Delta T=25K\) (50 to 75°C). Separate d c), coolant flow > 3I / min. Separate driver protection. Ceramic Cooling Surface. \(P_{0(max)}\) can be increased by the factor	VDC VDC VDC VDC ns mm³	
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