Maximum Turn-On Peak Current Visual Maximum Turn-On Peak Current Visual Maximum Turn-On Peak Current Visual Visual Maximum Turn-On Peak Current Visual Vi	Specification		Symbol	Conditio	n / Comme	ent			HTS	1401-30 SiC G	SM HTS 1	401-15 SiC GSM	Unit		
Monitorn Disablion Voltage			$V_{\text{O}(\text{max})}$		I _{off} < 40 μADC, T _{case} = 70°C					<u> </u>					
Maximum Turn-On Peak Curriert	Maximum Isolation Voltag	8	Vı							-					
1.5 1.50 m.m. day-gole + 1% 30 15 15 16 15 16 15 16 16	Max. Housing Insulation V	oltage	V _{INS}					tes					kVDC		
1.5 1.50 m.m. day-gole + 1% 30 15 15 16 15 16 15 16 16	Maximum Turn-On Peak (Current	I _{P(max)}						300		150				
1.5 1.50 m.m. day-gole + 1% 30 15 15 16 15 16 15 16 16	maximum rum om rum sansint		, ,	25°C	t_p < 1 ms, d	uty cycle <	:1%			190		90	ADC		
Mink Continuous Load Current Load Same Standard devices 2.52 1.25 A.					t _p < 10 ms,	duty cycle	<1%			58		26			
Devices with option DLC Acoustic Standard devices of FC forced out "4 mile" Acoustic Standard devices of FC forced out "4 mile" Acoustic Standard devices of FC forced out "4 mile" Acoustic Standard devices of FC forced out "4 mile" Acoustic Standard devices of FC forced out "4 mile" Acoustic Standard devices of FC forced out "4 mile" Acoustic Standard devices of FC forced out "4 mile" Acoustic Standard devices of FC forced out "4 mile" Acoustic Standard devices of FC forced out "4 mile" Acoustic Standard devices of FC forced out "4 mile" Acoustic Standard devices of FC forced out "4 mile" Acoustic Standard devices of FC forced out "4 mile" Acoustic Standard devices of FC forced out "4 mile" Acoustic Standard devices out "4 mile" Acou					t _p < 100 ms	, duty cycl	e <1%			30 15					
Devices with option DLC Acoustic Standard devices of FC forced out "4 mile" Acoustic Standard devices of FC forced out "4 mile" Acoustic Standard devices of FC forced out "4 mile" Acoustic Standard devices of FC forced out "4 mile" Acoustic Standard devices of FC forced out "4 mile" Acoustic Standard devices of FC forced out "4 mile" Acoustic Standard devices of FC forced out "4 mile" Acoustic Standard devices of FC forced out "4 mile" Acoustic Standard devices of FC forced out "4 mile" Acoustic Standard devices of FC forced out "4 mile" Acoustic Standard devices of FC forced out "4 mile" Acoustic Standard devices of FC forced out "4 mile" Acoustic Standard devices of FC forced out "4 mile" Acoustic Standard devices out "4 mile" Acou	Maximum Continuous Load	Current	I (max)	T _{case} =	Standard d	evices				2.52		1.25	ADC		
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Dispersion Perspective Region 25°C Beneford delivers & Cipitor BLC		ограцогт	· u(max)			*							Watt		
Silbrage Temperature Range	Linear Derating				· · · · · · · · · · · · · · · · · · ·										
Silbrage Temperature Range	Linear Derating							711/3					W/K		
Silbrage Temperature Range	Operating Temperature R	ange	To	·					40	40 75		C°			
Max. Auxiliary Valuage	Storage Temperature Ran												C°		
Max. Auxiliary Vollage															
Permissible Constrainty Vollage Range Vo. Typical Branch Vollage Vol. Control Vollage approach any Not applicable of projects any Not applicable of projects any Not applicable of Project Intervention Vollage Vol. Control Vollage Vol. Control Vollage Vol. Control Vollage Vol. Vol. Vol. Control Vollage Vol. Vol. Vol. Control Vollage Vol. Vol. Vol. Vol. Control Vollage Vol. Vol. Vol. Vol. Vol. Vol. Vol. Vol.		1 ICIU		, ,									VDC		
Typical Diff-State Current		tago Dango		Dullt-III OVE	ervoitage iirriit	ei (iepiace	abicj						kVDC		
Second processes only Not agaptable and Index of the Company Not agaptable and Index of Index				NOTE: \/	: ++		alib.						_		
Typical Turn-On Resistance Face Control Face Face Control Face Fac	Typical Breakdown Voltag	е	V _{br}	NOTE: V _{br} is a test parameter for quality control purposes only. Not applicable in					154						
Typical Turn-On Resistance Residual Suddy Children	Typical Off-State Current		l _{off}					est			< 40		µADC		
		ce					•			2.8		5.6	1		
Typical Propagation Delay Time Logy Resistive load, 0.1 x Innex. 0.8 x Vanues, 0.555% 20.0 n	',,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		· · · · · · ·			%									
Typical Output New Street Learner Section Control Output Street Learner Le				1			(- //						Ohm		
Typical Cutyout Publes Littler Loyer Resistive load, 10.90% 0.1 x Voxose, k = 0.1 x lynom 5.55 0.8 x Voxose, k = 0.1 x lynom 6.8	Typical Propagation Delay	Time	t _{d(on)}							-			ns		
Typical Turn-On/Off Rise Time	71 1 0 7		t _i	V 7								ns			
Backmann Turn-On Time	71 1		t-/>/						,				110		
Maximum Turn-On Time	Typical Turn-On/On Rise Time			1 (COIOLIVE I											
Maximum Turn-On Time			(OII)												
Maximum Burst Frequency	Movimum Ture On Time		+ , ,				0.0 X V O(ma	J.O X V O(max), IL - I.U X Ip(max)					113		
Maximum Burst Frequency	Minimum Turn On Time												no		
Maximum Burst Frequency			+							-			115		
Maximum Burst Frequency	Maximum Turn-Off Time		- ' '												
Seric and devices with HFS supply 30 Standard devices with HFS supply 30 No. N				•									ns		
Maximum Burst Frequency Suma Use option HFB for >10 pulses within 20 µs or less 400 Maximum Number of Pulses / Burst Nima) Use option HFB for >10 pulses within 20 µs or less 400 April Maximum Number of Pulses / Burst Nima) Use option HFB for >10 pulses within 20 µs or less 400 April Apri	Frequency		t _(max)	@ V _{aux} = 5	Sw. shutdown if f _(max) is Standard devices with HFS supply				۱						
Maximum Burst Frequency Suma Use option HFB for >10 pulses within 20 µs or less 400 Maximum Number of Pulses / Burst Nima) Use option HFB for >10 pulses within 20 µs or less 400 April Maximum Number of Pulses / Burst Nima) Use option HFB for >10 pulses within 20 µs or less 400 April Apri				Sw. shutdown											
Maximum Number of Pulses / Burst Nymay @ fo_pmay				exceeded Opt. HFS + sufficient cooling option									kHz		
Coupling Capacitance Co. HVFside against control side Co. Natural Capacitance Na	Maximum Burst Frequency									• • • • • • • • • • • • • • • • • • • •			kHz		
Coupling Capacitance Co. HVFside against control side Co. Natural Capacitance Na			$N_{(max)}$	@ f _{b(max)} Standard									Pulses		
Coupling Capacitance Co. HVFside against control side Co. Natural Capacitance Na				Note: Option HI	FB requires external	buffer capacito	s with a voltage	Option I-HFB			>100				
Natural Capacitance CN Between switch poles, @ 0.5 x Voluma) 420 pin				rating of > 630\					>1000						
Control Voltage Range			Cc	HV side against control side						<50					
Auxiliary Supply Voltage Range Typical Auxiliary Supply Current Inax Vax=5.00 VDC, Tax=25°C. Active current limitation above 1A. Active cu	Natural Capacitance		C _N	5											
Auxiliary Supply Voltage Range Typical Auxiliary Supply Current Inux Vax = 5.00 VCD, Tasse = 25°C. Active current limitation above 1A. By and	·		V_{ctrl}							3 10					
Typical Auxiliary Supply Current Insux Vasix = 5.00 VDC, Tasex = 25°C, Active current limitation above 1A. (@ f _(max)) Switch will be turn off, if F _(max) , Vasix <4.75V or Tasex >75°C											5		VDC		
Addive current limitation above 1A. @ f _[max] 800 mA				113						>450					
Fault Signal Output Switch will be turn off, if >f max , Vaux<4.75V or T_case>75°C													mADO		
Fault condition is indicated by a logical "L"															
Opt. HFS, Ext. Supply Voltage V1 ViFS(VT) Stability ±3%, current consumption <0.4 mA/kHz @ 25°C 15 VC	. aan olgilai oaqaa							· Case · C			, = 0.01				
Opt. HFS, Ext. Supply Voltage V2 V _{FSV(2)} Stability ±3%, current consumption <0.9 mA/kHz @ 25°C TBD VC	Ont HES Ext Supply Vol	tage V1	VHEQUAL					kHz @ 25°C			15		VDC		
Intrinsic Diode Forward Voltage VF T_{case} = 25°C, F = 0.3 x Fr(max)															
Diode Reverse Recovery Time tro Tcase = 25°C, Is = 0.3 x In(max), di/dt = 100 A/µs <50 mm	1 1 1 1 1 1 1		. ,												
Dimensions LxWxH Standard housing Devices with option CF, non-isolated cooling fins Devices with option CF, non-isolated cooling fins Devices with option DLC															
Devices with option CF, non-isolated cooling fins Devices with option DLC Weight Standard housing Devices with option CF, non-isolated cooling fins Devices with option DLC Control Signal Input Logic GND / 5V Return 5V Auxiliary Supply Fault Signal Output Inhibit Signal Input LED Indicators Temperature Protection Temperature Protection T	•	TITLE				IP(max), UI/U	ι – 100 Α/μ	5					115		
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Control Signal Input Logic GND / 5V Return 5V Auxiliary Supply Fault Signal Output Inhibit Signal Input LED Indicators Temperature Protection HTS 141-30 SiC GSM Transistor Switch, 140 kVDC, 300 HTS 1401-15 SiC GSM Transistor Switch, 140 kVDC, 150 Option HFS Option HFS Indip Frequency Switch Input Signal Coling Flams To Pin 1 / Yellow. TTL compatible with Schmitt-Trigger characteristics. Control voltage 2-10 V (3-5 V recommended for low jitter). Pin 2 / Black. The ground pin is internally connected with the safety earthing terminal (threaded insert) on bottom side. Pin 3 / Red. The 5 V input is used for rep rates up to the specified max. frequency f _(max) . Higher rep rates require option HFS. Pin 4 / Orange. TTL output, short circuit proof. Indicating switch & driver over-heat, over-frequency, low auxiliary voltage. L = Fault. Pin 5 / Green. TTL compatible, Schmitt-Trigger characteristics for the connection of external safety circuits. L = Switch Inhibited. GREEN: "Auxiliary power good, switch OFF" A) Standard switches and switches with option CF, GCF: Thermo trigger 75°C, response time < 60 s @ 3xPd(max), ΔT=25K (50 to 75°C). Separate driver protection. B) Switches with option DLC: 65°C, response time < 3 s @ 3xPd(max), ΔT=25K (40 to 65°C), coolant flow > 31 / min. Separate driver protection. HTS 141-30 SiC GSM Transistor Switch, 140 kVDC, 300 Option HFB High Frequency Burst, Improved burst capability by driver. Option Option HFB High Frequency Burst, Improved burst capability by driver. Option UFTR Ultra Fast Thermotrigger. Response time < 5s. NTC 10k / ± 1% Option DLC Direct Liquid Cooling (for PE/PFC). Pdrmay can be increased by the factor 3 to 15. Option UFTS Ultra Fast Thermosensor. Response time < 5s. NTC 10k / ± 1% Option DLC Direct Liquid Cooling (for PE/PFC). Pdrmay can be increased by the factor 3 to 15.				•						manufactured!			g		
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Fault Signal Output Inhibit Signal Input LED Indicators Temperature Protection Fig. 1 Auxiliary power good, switch OFF". YELLOW: "Control signal received, switch ON". RED: "Fault condition, switch OFF". A) Standard switches and switches with option DLC: 65°C, response time < 3 s @ 3xPd(max), \(\Delta T=8t\) Transistor Switch, 140 kVDC, 300 HTS 141-30 SiC GSM Transistor Switch, 140 kVDC, 300 Option LP Low Pass. Input filter for increased noise immunity. HTS 141-15 SiC GSM Transistor Switch, 140 kVDC, 150 Option S-TT Soft Transition Time. Slower switching speed for simplified EMC. Option CF Copper Cooling Fins. Pd(max) can be increased by the factor 3 to 15. Option UFTS Ultra Fast Thermosensor. Response time < 5s. NTC 10k /± 1% Option DLC Direct Liquid Cooling (for reter). Pd(max) can be increased by the factor 3 to 15. Option DLC Direct Liquid Cooling (for reter). Pd(max) can be increased by the factor 3 to 15. Option UFTS Ultra Fast Thermosensor. Response time < 5s. NTC 10k /± 1% Option DLC Direct Liquid Cooling (for reter). Pd(max) can be increased by the factor 3 to 15. Option UFTS Ultra Fast Thermosensor. Response time < 5s. NTC 10k /± 1% Option DLC Direct Liquid Cooling (for reter). Pd(max) can be increased by the factor 3 to 15. Option UFTS Ultra Fast Thermosensor. Response time < 5s. NTC 10k /± 1% Option DLC Direct Liquid Cooling (for valer). Pd(max) can be increased by the factor 3 to 15. Option UFTS Ultra Fast Thermosensor. Response time < 5s. NTC 10k /± 1% Option DLC Direct Liquid Cooling (for valer). Pd(max) can be increased by the factor 3 to 15. Option UFTS Ultra Fast Thermosensor. Response time < 5s. NTC 10k /± 1% Option DLC Direct Liquid Cooling (for valer). Pd(max) can be increased by the factor 3 to 15. Option UFTS Ultra Fast Thermosensor. Response time < 5s. NTC 10k /± 1% Option DLC Direct Liquid Cooling (for valer). Pd(max) can be increased by the factor 3 to 15. Option UFTS Ultra Fast Thermosensor. Response ti	• ,							-							
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FOR FURTHER PRODUCT OPTIONS PLEASE REFER TO THE OPTIONS PAGE.	JEKII J		C	Option UFTR 1	Ultra Fast Thermo	otrigger. Resp	onse time for sl	nut down < 5s.	Option ILC	Indirect Liquid Coolina	(for water). P _{d(max)} ca	an be increased by the factor	J 10 1J.		
	SKDEKII								•						