Marriam Generality (Vestign) Vestign Ves		Specification	Symbol	Condition / Comment				121-30-GSM-SiC Unit				Unit
Marchand National Value Name					I _{off} < 150 μADC, T _{case} = 70°C							
Macrount Function Peak Current							•					
Name Continuous Load Current 1,700 Tow = 20°C Option CP. Control of Arch 0.0 ACC	S											kVDC
Name Continuous Load Current 1,700 Tow = 20°C Option CP. Control of Arch 0.0 ACC	NG	Maximum Turn-On Peak Curr	rent I _{P(max)}	T _{case} = 25°C								
Name Continuous Load Current 1,700 Tow = 20°C Option CP. Control of Arch 0.0 ACC	Ē											
Non-run Coliforos Load Current	8											
Page	8				1 1							ADC
Page	3	Maximum Continuous Load Cui	rrent I _{L(max)}		Option CF, cooling fins Devices with option DLC							
Page	×			T _{case} = 25°C							ADC	
Page	M	14 O " D D' :										
Uniform Demonstrate Relation Above 2010		Max. Continuous Power Dissipa	ation P _{d(max)}	T _{case} = 25°C		*					14/-44	
Stronge Femperature Range Fig. Subtrible with option (L. Pray require find protection) 40, 30 **C	5				-							wall
Stronge Femperature Range Fig. Subtrible with option (L. Pray require find protection) 40, 30 **C	70	Linear Derating		Above 25°C	Devices with option DLC							10///2
Stronge Femperature Range Fig. Subtrible with option (L. Pray require find protection) 40, 30 **C	BS	On a setting a Tanana anatusa Dana	- T	Ctan dand darda								
Max. Permissible Nagment Fried B	4								, ,			
Max. Auxiliary Voltage												
Permissible Operating Vollage Vo												
Range											-	
Typical Oral District Oral Transform			e v ₀								KVDC	
Typical Function Resistance		0		NOTE: V. in a test parameter for quality control								11/150
Typical Turn-On Resistance							rmal operation! Ioff > 0.5 IIIA					
Local Capacitive Power Past 1.5 k 1.5		31										μADC
10.5 k / most. Two = 70°C		Typical Turn-On Resistance	R _{stat}	• • • • • • • • • • • • • • • • • • • •								
Sylicial Capacitive Power Part Switch Capacitances only 0.8 x Voyine, f = 1014z 1.035 1.03				t_p < 1 μ s, duty cy	/cle < 1%		1.0 x I _{P(max)} , T _{case} =70°C					۵.
Dissipation of Switch Natural Power Dissipation			_									Ohm
Page			P _{dc}	•								
Page Typical Propagation Delay Time Standard Service Standard	FRISTICS				,		. "					Watt
Page												
Section Progression Prog												
Section Progression Prog												ns
Section Progression Prog												
Section Progression Prog	E											ne
Section Progression Prog	2	Maximum Turn-On Time	1, 7									
Section Progression Prog	\$											
Frequency Sw. shubtown if Small sexoceaded	S									110		
Natural Capacitance Control Voltage Range Auxiliary Supply Voltage Range Auxiliary Supply Voltage Range Auxiliary Supply Voltage Range Typical Auxiliary Supply Voltage Range Typical Auxiliary Supply Voltage Range Opt. HFS, Ext. Supply Voltage Range Auxiliary Supply Voltage Range Typical Auxiliary Supply Voltage Range Opt. HFS, Ext. Supply Voltage	47			_	·					•		
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Natural Capacitance	H				0,		, ,			•		pF
Control Voltage Range V _{est} The V _{dis} has no impact on the output pulse shape. 3 10 VDC Auxiliary Supply Voltage Range V _{est} The +5 v supply is not required in the HFS mode. 4.5 5.5 VDC VDC Typical Auxiliary Supply Current V _{est} The +5 v supply is not required in the HFS mode. 4.5 5.5 VDC VDC				. T								· '
Auxiliary Supply Voltage Range Typical Auxiliary Supply Current Typical Auxiliary Supply Current Typical Auxiliary Supply Current Typical Auxiliary Supply Voltage V1 Vasc 5.00 VDC, Tass 25°C, 0.01 x f _(max) Opt. HFS, Ext. Supply Voltage V1 Vasc 5.00 VDC, Tass 25°C, percent limitation above 1A Opt. HFS, Ext. Supply Voltage V1 Vasc VI Vasc V		Natural Capacitance	C _N	Between switch poles, @ 0.5 x V _{O(max)}						< 20		pF
Typical Auxiliary Supply Current Insux		Control Voltage Range		The V _{ctrl} has no	impact on t	he output p	oulse shape.	3 10				VDC
Active current limitation above 1A. @ specified f _(max) 500 mADC		Auxiliary Supply Voltage Rang	ge V _{aux}	The +5 V supply	y is not requi	red in the	HFS mode.	4.5 5.5				VDC
Opt. HFS, Ext. Supply Voltage V1 Virsiving. Stability ±3%, current consumption <0.4 mA/kHz @ 25°C TBD VDC VDC HFS, Ext. Supply Voltage V2 Virsiving. Stability ±3%, current consumption <0.5 mA/kHz @ 25°C TBD VDC VDC Intrinsic Diode Forward Voltage VF Taus = 25°C, Ir = 0.3 x Injunct 100 M/kHz @ 25°C TBD VDC VDC VDC VDC VDC VDC VDC VDC VDC VD		Typical Auxiliary Supply Curre	ent I _{aux}	$V_{aux} = 5.00 \text{ VDC}$, T _{case} = 25°C. 0.01		0.01 x f _(max)	100				
Opt. HFS, Ext. Supply Voltage V2 VHSV2. Stability ±3%, current consumption <0.5 mA/kHz @ 25°C TBD VDC Intrinsic Diode Forward Voltage VF Tase = 25°C, Is = 0.3 x Ingress 25°C, Ingress 25°C, Is = 0.3 x Ingress 25°C, Ingress 25°C, Is = 0.3 x Ingress 25°C, Is = 0.3 x Ingress 25°C,				Active current limitation above 1A. @ specified f _(max)								
Intrinsic Diode Forward Voltage VF Toase = 25°C, F = 0.3 x Pinnacy di/dt = 100 A/µs 50 ns												
Diode Reverse Recovery Time trrc Trasse = 25°C, r = 0.3 x r _[max] , dil/dt = 100 A/µs 50 ns				, , ,								
Dimensions LxWxH Standard housing, without pigtails Devices with option ILC & DLC Brass contact the Device with option ILC & DLC Brass contact the Device wit			-									
Devices with option ILC & DLC Meight Standard housing Please contact the manufactured! Meight Standard housing Please contact the manufactured! g		,								50		ns
Control Signal Input Logic GND / 5V Return 5V Auxiliary Supply Fault Signal Output Inhibit Signal Input LED Indicators Temperature Protection Temperature Protection Pin 5 / Green (LS-C: Pin 2). TTL compatible, Schmitt-Trigger characteristics for the connection of external safety circuits. L = Switch Inhibited. GREEN: "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), ΔT=25K (40 to 65°C), coolant flow> 3 / rmin. Separate driver protection. HTS 121-39-GSM-SIC Fast HV Push-Put Switch, 12W, 300 A Option HFB High Frequency Switching (two auxiliary supply inputs V1 & V2) Option HFB Option HFS High Frequency Switching (two auxiliary supply inputs V1 & V2) Option HFW Option HFB Option Min-On Individually increased "Min. On-Time" to avoid unwanted triggering Option SEP-C Option ISO-80 Option ISO-200 For EVERT PRODUCT OPTIONS PLASE REFER TO THE OPTIONS PAGE.	2	Uimensions	LxWxH	1								
Control Signal Input Logic GND / 5V Return 5V Auxiliary Supply Fault Signal Output Inhibit Signal Input LED Indicators Temperature Protection Temperature Protection Pin 5 / Green (LS-C: Pin 2). TTL compatible, Schmitt-Trigger characteristics for the connection of external safety circuits. L = Switch Inhibited. GREEN: "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), ΔT=25K (40 to 65°C), coolant flow> 3 / rmin. Separate driver protection. HTS 121-39-GSM-SIC Fast HV Push-Put Switch, 12W, 300 A Option HFB High Frequency Switching (two auxiliary supply inputs V1 & V2) Option HFB Option HFS High Frequency Switching (two auxiliary supply inputs V1 & V2) Option HFW Option HFB Option Min-On Individually increased "Min. On-Time" to avoid unwanted triggering Option SEP-C Option ISO-80 Option ISO-200 For EVERT PRODUCT OPTIONS PLASE REFER TO THE OPTIONS PAGE.	US	Woight		•								um
Control Signal Input Logic GND / 5V Return 5V Auxiliary Supply Fault Signal Output Inhibit Signal Input LED Indicators Temperature Protection Temperature Protection Pin 5 / Green (LS-C: Pin 2). TTL compatible, Schmitt-Trigger characteristics for the connection of external safety circuits. L = Switch Inhibited. GREEN: "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), ΔT=25K (40 to 65°C), coolant flow> 3 / rmin. Separate driver protection. HTS 121-39-GSM-SIC Fast HV Push-Put Switch, 12W, 300 A Option HFB High Frequency Switching (two auxiliary supply inputs V1 & V2) Option HFB Option HFS High Frequency Switching (two auxiliary supply inputs V1 & V2) Option HFW Option HFB Option Min-On Individually increased "Min. On-Time" to avoid unwanted triggering Option SEP-C Option ISO-80 Option ISO-200 For EVERT PRODUCT OPTIONS PLASE REFER TO THE OPTIONS PAGE.	40	vvoigiit									~	
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For all to Signal Output Inhibit Signal Output Inhibit Signal Input LED Indicators Temperature Protection Temperature Prote	TIONS					-		jitter).				
Temperature Protection												
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Temperature Protection	NC	- '								•		
Protection. B) Switches with option DLC: 65 °C, response time < 3 s @ 3xPd(max), \(\Delta T=25K\) (40 to 65 °C), coolant flow > 3l / min. Separate driver protection. HTS 121-30-GSM-SiC Fast HV Push-Pull Switch, 12kV, 300 A Option LP Low Pass. Input filter for increased noise immunity. Option I-PC Integrated part components according to customer specification. Option HFB High Frequency Burst (improved capability by external capacitors) Option I-FWD Integrated Free-Wheeling Diode. In connection with inductive load only. Option I-HFS High Frequency Switching (two auxiliary supply inputs V1 & V2) Option I-FWDN Integrated Free-Wheeling Diode. In connection with inductive load only. Option I-HFS Integrated High Frequency Burst Option I-FWDN Integrated Free-Wheeling Diode. In connection with inductive load only. Option I-HFS Integrated High Frequency Burst Option I-FWDN Integrated Free-Wheeling Diode. In connection with inductive load only. Option I-HFS Integrated High Frequency Burst Option I-FWDN Integrated Free-Wheeling Diode. In connection with inductive load only. Option I-HFS Integrated High Frequency Burst Option I-FWDN Integrated Free-Wheeling Diode. In connection with inductive load only. Option I-HFS Integrated High Frequency Burst Option I-FWDN Integrated Free-Wheeling Diode. In connection with inductive load only. Option I-FWDN Integrated Free-Wheeling Diode. In connection with inductive load only. Option I-FWDN Integrated Free-Wheeling Diode. In connection with inductive load only. Option I-FWDN Integrated Free-Wheeling Diode. In connection with inductive load only. Option I-FWDN Integrated Free-Wheeling Diode. In connection with inductive load only. Option I-FWDN Integrated Free-Wheeling Diode. In connection with inductive load only. Option I-FWDN Integrated Free-Wheeling Diode. In connection with inductive load only. Option I-FWDN Integrated Free-Wheeling Diode. In connection with inductive lo	F		•	., .						· ·		
HTS 121-30-GSM-SiC Fast HV Push-Pull Switch, 12kV, 300 A Option LP Low Pass. Input filter for increased noise immunity. Option I-PC Integrated part components according to customer specification. Option HFB High Frequency Burst (improved capability by external capacitors) Option IL-94 Flame retardant casting resin, UL94-V0 Option I-FWD Integrated Free-Wheeling Diode. In connection with inductive load only. Option I-FWD Integrated Free-Wheeling Diode Network. In connection with inductive load only. Option I-FWD Integrated Free-Wheeling Diode Network. In connection with inductive load. Option S-TT Soft Transition Time decrease the rise and fall time by 20% Option IF-FWD Integrated Free-Wheeling Diode Network. In connection with inductive load only. Option Min-On Individually increased "Min. On-Time" to avoid unwanted triggering Option SEP-C Separated control connection: Flexible leads (I-75mm) with lemo connector. Option Min-Off Individually increased "Min. Off-Time" to avoid unwanted triggering Option TH Tubular Housing Option ISO-80 80 KV Isolation. Isolation Voltage increased to 80kV. Option GF Copper Cooling Fins. Polymaxy can be increased by the factor 3 to 16. Option ISO-100 120kV Isolation. Isolation Voltage increased to 120kV. Option ILC Indirect Liquid Cooling. Polymay can be increased by the factor 3 to 10. Option ISO-200 200kV Isolation. Isolation Voltage increased to 160kV. Option DLC Direct Liquid Cooling. Polymay can be increased by the factor 10 to 100. Option ISO-200 200kV Isolation. Isolation Voltage increased to 200kV. FOR FURTHER PRODUCT OPTIONS PLEASE REFER TO THE OPTIONS PAGE.									_			driver
Option HFB High Frequency Burst (improved capability by external capacitors) Option LI-94 Flame retardant casting resin, UL-94-V0 Option HFS High Frequency Switching (two auxiliary supply inputs V1 & V2) Option I-FWD Integrated Free-Wheeling Diode. In connection with inductive load only. Option S-TT Soft Transition Time decrease the rise and fall time by 20% Option FT-C Piglal for control connection: Flexible leads (I-75mm) with lemo connector. Option Min-On Individually increased "Min. On-Time" to avoid unwanted triggering Option SEP-C Separated control unit. Control unit with LED indicators in a separate Option Min-Off Individually increased "Min. Off-Time" to avoid unwanted triggering Option TH Tubular Housing Option FC Pulser Configuration. Switch combined with custom specific parts. Option S0-80 80kV Isolation. Isolation Voltage increased to 80kV. Option ISO-100 120kV Isolation. Isolation Voltage increased to 120kV. Option ISO-100 160kV Isolation. Isolation Voltage increased to 120kV. Option ISO-100 160kV Isolation. Isolation Voltage increased to 160kV. Option ISO-100 160kV Isolation. Isolation Voltage increased to 160kV. Option ISO-100 160kV Isolation. Isolation Voltage increased to 160kV. Option ISO-100 160kV Isolation. Isolation Voltage increased to 160kV. Option ISO-100 160kV Isolation. Isolation Voltage increased to 160kV. Option ISO-100 160kV Isolation. Isolation Voltage increased to 160kV. Option ISO-100 160kV Isolation. Isolation Voltage increased to 160kV. Option ISO-100 160kV Isolation. Isolation Voltage increased to 160kV. Option ISO-100 160kV Isolation. Isolation Voltage increased to 160kV. Option ISO-100 160kV Isolation. Isolation Voltage increased to 160kV. Option ISO-100 160kV Isolation. Isolation Voltage increased to 160kV. Option ISO-100 160kV Isolation. Isolation Voltage increased to 160kV. Option ISO-100 160kV Isolation. Isolation Voltage increased to 160kV. Option ISO-100 160kV Isolation. Isolation Voltage increased to 160kV. Option ISO-100 160kV Isolation. Isolation Voltage increased		pro	otection. B) Switch					T=25K (4			•	
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Option ISO-80 80kV Isolation. Isolation Voltage increased to 80kV. Option GCF Grounded Cooling (for water). Popinal, can be increased by the factor 3 to 15. Option ISO-120 120kV Isolation. Isolation Voltage increased to 120kV. Option ILC Indirect Liquid Cooling (for water). Popinal, can be increased by the factor 3 to 15. Option ISO-160 160kV Isolation. Isolation Voltage increased to 160kV. Option DLC Direct Liquid Cooling. Popinal, can be increased by the factor 10 to 100. Option ISO-200 200kV Isolation. Isolation Voltage increased to 200kV. FOR FURTHER PRODUCT OPTIONS PLEASE REFER TO THE OPTIONS PAGE.	RD								e increased by the fact	or 3 to 10		
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Option ISO-200 200kV Isolation. Isolation Voltage increased to 200kV. FOR FURTHER PRODUCT OPTIONS PLEASE REFER TO THE OPTIONS PAGE.				Option ISO-120 120kV Isolation. Isolation Voltage increased to 120kV.					Indirect Liquid Cooling (for water). Pd(m	ax) can be increased by t	the factor 3 to 1	
	Cust	omized swi <u>tching units are available o</u>	on request. All data a					lke.com fo				