	Specification	Symbol	Condition / Comment						HTS 501-240 SiC Unit		
	Maximum Operating Voltage	$V_{O(max)}$	l _{off} < 270 μADC, T _{case} = 70°C							50	kVDC
	Maximum Isolation Voltage	V _I		IV switch and		GND, continu	ously			± 60	kVDC
	Max. Housing Insulation Voltage	V _{INS}		Between switch and housing surface, 3 minutes						± 70	kVDC
RATINGS	Maximum Turn-On Peak Current	I _{P(max)}	T _{case} =							2400	
47		, ,	25°C	t₀< 1 ms, dı	l ms, duty cycle <1%					1400	ADC
8				t _p < 10 ms, o	< 10 ms, duty cycle <1%					500	
1				t_p < 100 ms,	00 ms, duty cycle <1%					240	
MAXIMUM	Maximum Continuous Load Current	I _{L(max)}	T _{case} = Standard devices							10	ADC
1AX	May Configure Down Dissipation	<u> </u>	25°C Devices with option DLC							130 160	
-	Max. Continuous Power Dissipation	$P_{d(max)}$	T _{case} = Standard devices & FC, forced air 4 m/s 25°C Devices with option DLC							4800	Watt
4BSOLUTE	Linear Derating		Above Standard devices & FC. forced air 4 m/s							0.48	watt
70			25°C Devices with option DLC							240	W/K
BS	Operating Temperature Range	To	Standard devices & options CF, GCF, ILC. (Option DLC)							-4070	C°
4	Storage Temperature Range	Ts	Switches with option ILC may require frost protection!							-4080	C°
	Max. Permissible Magnetic Field	В		Homogeneous steady-field, surrounding the whole switch						25	mT
	Max. Auxilliary Voltage	V _{aux}		Built-in overvoltage limiter (replaceable)						5.5	VDC
	Permissible Operating Voltage Range	Vo		Unipolar operation (one switch pole grounded or floated)						0 ± 50	kVDC
	Typical Breakdown Voltage	V _{br}	NOTE: V _{br} is	NOTE: V _{br} is a test parameter for quality control purposes only. Not applicable in						55	kVDC
	Typical Off-State Current	l _{off}		0.8xV ₀ , T _{case} =2570°C, reduced l _{off} on request						< 270	μADC
	Typical Turn-On Resistance	R _{stat}	Each switc	hing path	0.1 x I _{P(max)} , T _{case} =25°C			;		0.11	
			t_p < 1 μ s, duty cycle < 1% 1.0			$1.0 \; x \; I_{P(max)},$	0 x I _{P(max)} , T _{case} =25°C			0.16	
				1.0 x I _{P(max)} , T _{case} =70				;	-		Ohm
	Typical Propagation Delay Time	Resistive load, 0.1 x I _{P(max)} , 0.8 x V _{O(max)} , 50-50%							200	ns	
	Typical Output Pulse Jitter	tj		pedance matched input, V _{aux} / V _{ctrl} = 5.00 VDC						3	ns
	Typical Turn-On Rise Time	$t_{r(on)}$	Resistive load, 10-90% $0.1 \times V_{O(max)}$, $I_L = 0.1 \times I_{p(max)}$							38	
						0.8 x V _{O(max)}			69		
Si	Maximum Turn-On Time	$0.8 \times V_{O(max)}, I_L = 1.0 \times I_{p(max)}$					p(max)		68	ns	
	Minimum Turn-On Time	t _{on(max)}		No limitation						 250	
4/5	Maximum Turn-Off Time	t _{on(min)}	No limitatio	ton(min) can be customized. Please consult factory						250 ∞	ns
Ē	Minimum Turn-Off Time	t _{off(max)}			d Dloggo	concult facto	n/			250	ns
40	Max. Continuous Switching	t _{off(min)}		toff(min) can be customized. Please consult @ V _{aux} = 5.00 V Standard devices				ntion		0.8	115
4R	Frequency	I(max)	_	@ V _{aux} = 5.00 V Standard devices without HFS optior Standard devices with HFS supply						40	
H			exceeded	0.1 1150 - 55 - 1 - 1 - 1 - 1 - 1						80	kHz
7	Maximum Burst Frequency	f _{b(max)}	Use option HFB for >10 pulses within 20µs or less							500	kHz
~	Maximum Number of Pulses / Burst	N _(max)	@ f _{b(max)} Standard						> 10 Use option HFB for >10	Pulses	
78		(max)	Note: Option HFB requires external buffer capacitors with a voltage Option I-HFB							>100	
EC			rating of > 630VE	ting of > 630VDC and a cpacitance of 100nF per additional Option HFB					>1000		
EL	Coupling Capacitance	HV side against control side							<100	pF	
	Natural Capacitance	C _N	Between switch poles, @ 0.5 x V _{O(max)}						<50	pF	
	Control Voltage Range	V _{ctrl}		The V_{ctrl} has no impact on the output pulse shape. The +5 V supply is not required in the HFS mode.						3 10	VDC
	Auxiliary Supply Voltage Range	V _{aux}				the HFS mo				5	VDC
	Typical Auxiliary Supply Current Iaux		V _{aux} = 5.00 VDC, T _{case} = 25°C. 0.01 x f _(max)					max)		270	450
	Fault Cianal Outant		Active current limitation above 1A. @ f _(max)						800	mADC	
	Fault Signal Output		Switch will be turn off, if f>f _(max) , V _{aux} <4.75V or T _{case} >75°C							H=4V, L=0.5V	VDC
	Opt. HFS, Ext. Supply Voltage V1	V _{HFS(V1)}	Fault condition is indicated by a logical "L" Stability ±3%, current consumption <0.4 mA/kHz @ 25°C							15	VDC
	Opt. HFS, Ext. Supply Voltage V2	Stability ±3%, current consumption <0.4 mA/kHz @ 25°C Stability ±3%, current consumption <0.9 mA/kHz @ 25°C							420	VDC	
	Intrinsic Diode Forward Voltage	V _{HFS(V2)}	T _{case} = 25°C, I _F = 0.3 x I _{P(max)}							<60	VDC
	Diode Reverse Recovery Time	$T_{case} = 25^{\circ}C$, $I_{F} = 0.3 \times I_{P(max)}$, $di/dt = 100 \text{ A/µs}$							<50	ns	
		trrc		Standard housing							
	Dimensions	LxWxH	Standard n	lousing				ĺ		Please contact the	
VG	,		Devices wi	th option CF		ted cooling fi	ns			manufacturer!	mm ³
SING	Dimensions		Devices wi	th option CF, th option DL		ted cooling fi	ns				mm ³
OUSING	,		Devices wi Devices wi Standard h	th option CF, th option DL0 nousing	C						
HOUSING	Dimensions		Devices wi Devices wi Standard h Devices wi	th option CF, th option DL nousing th option CF,	, non-isola					manufacturer!	mm³
HOUSING	Dimensions Weight	LxWxH	Devices wi Devices wi Standard h Devices wi Devices wi	th option CF, th option DL0 nousing th option CF, th option DL0	C , non-isola C	ted cooling fi	ns	dad far law	(iittor)	manufacturer! Please contact the	
	Dimensions Weight Control Signal Input Logic GND / 5V Return Pin 1 / Yellow. 7 Pin 2 / Black. 7I	LxWxH TL compatible ground pin	Devices wire Devices wire Devices wire Devices wire with Schmitt-Tries internally connections.	th option CF th option DL nousing th option CF th option DL gger characterist ected with the sa	, non-isola C tics. Control v fety earthing	ted cooling fi	ns 5 V recommend d insert) on bot	tom side.	•	manufacturer! Please contact the	
	Dimensions Weight Control Signal Input Logic GND / 5V Return 5V Auxiliary Supply Pin 3 / Red. The	LxWxH TL compatible ground pin is 5 V input is u	Devices wir Devices wir Standard h Devices wir Devices wir with Schmitt-Tries internally conne	th option CF, th option DL0 nousing th option CF, th option DL0 igger characterist ected with the sa up to the specific	, non-isola C tics. Control v fety earthing ed max. frequ	ted cooling fi	ns 5 V recommend d insert) on bot r rep rates requ	tom side. uire option l	HFS.	manufacturer! Please contact the manufacturer!	
	Dimensions Weight Control Signal Input Logic GND / 5V Return 5V Auxiliary Supply Fault Signal Output Inhibit Signal Input Pin 5 / Green. T	TL compatible se ground pin is 5 V input is u TTL compatible to the compatible to th	Devices wi Devices wi Standard h Devices wi Devices wi with Schmitt-Tris internally connu- sed for rep rates ord circuit proof. I, Schmitt-Trigger	th option CF, th option DL ousing th option CF, th option DL gger characterist ected with the sa up to the specific indicating switch characteristics for	, non-isola C iics. Control v fety earthing ed max. frequ & driver over or the connec	ted cooling fi	ns 5 V recommend d insert) on bot r rep rates requency, low auxili afety circuits. L	tom side. uire option l ary voltage = Switch li	HFS. e. L = Faul Inhibited.	manufacturer! Please contact the manufacturer!	
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	Dimensions Weight Control Signal Input Logic GND / 5V Return 5V Auxiliary Supply Fault Signal Output Inhibit Signal Input LED Indicators Temperature Protection Pin 1 / Yellow. Pin 2 / Black. Ti Pin 2 / Black. Ti Pin 3 / Red. The Pin 4 / Orange. Pin 5 / Green. T GREEN: "Auxiliary 3 s @ 3xPd(max) 3 s @ 3xPd(max)	TL compatible se ground pin is 5 V input is u TTL compatible ary power goorches and switc.	Devices wi Devices wi Standard h Devices wi Devices wi with Schmitt-Tris internally connesed for rep rates ort circuit proof. Schmitt-Trigger J, switch OFF". hes with option CI	th option CF, th option DL4 nousing th option CF, th option DL4 gger characterist ected with the sa up to the specific indicating switch characteristics fr YELLOW: "Cont F, GCF: Thermot w >3/min. Sepa	, non-isola C cics. Control v fety earthing ed max. frequ & driver over or the connec rol signal record rigger 75°C, r rate driver prot	ted cooling fi oltage 2-10 V (3- erminal (threade ency f _{(max}). Highe heat, over-frequition of external s sived, switch ON' sesponse time < 60 ection.	ns 5 V recommend insert) on bot rep rates requested, low auxiliafety circuits. L. RED: "Fault	tom side. uire option lary voltage = Switch lactoristics, and the condition, so, and the condition is a second to the condition is a	HFS. e. L = Faul Inhibited. switch OF ((50 to 75°	manufacturer! Please contact the manufacturer! t. The contact the manufacturer! The contact the manufacturer! The contact the manufacturer! The contact the manufacturer!	g
	Dimensions Weight Control Signal Input Logic GND /5V Return 5V Auxiliary Supply Fault Signal Output Inhibit Signal Input LED Indicators Temperature Protection Pin 1 / Yellow. T Pin 2 / Black. TI Pin 3 / Red. The GREEN: "Auxiliary Supply Pin 4 / Orange. Pin 5 / Green. T GREEN: "Auxiliary Supply Pin 4 / Orange. A) Standard swit	TL compatible reground pin is 5 V input is ur TTL output, si TTL output, si TL compatible ray power gooches and switc ,ΔT=25K (40 V Dotton	Devices wi Devices wi Standard h Devices wi Devices wi with Schmitt-Tris s internally connesed for rep rates of tricuit proof. Schmitt-Trigger J, switch OFF" hes with option CI 165°C), coolant flo	th option CF, th option DL(th	non-isola c c c c c c c c c c c c c c c c c c	ted cooling fi oltage 2-10 V (3- erminal (threade ency f _(max) . Highe heat, over-frequition of external sieved, switch ON' esponse time < 60 ection.	ns 5 V recommend d insert) on bot r rep rates requ ency, low auxili afety circuits. L RED: "Fault 0 s @ 3xPd(max	tom side. uire option ary voltage = Switch II condition, ; x), ΔT =25K	HFS. e. L = Faul Inhibited. switch OF (50 to 75°	manufacturer! Please contact the manufacturer! t. F" C). Separate driver protection. B) Switches with option DLC: 65°C, response.	g
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