	Specification	Symbol	ol Condition / Comment						HTS 401-60 SiC Unit			
	Maximum Operating Voltage	V _{O(max)}	I _{off} < 320 μADC, T _{case} = 70°C							40	kVDC	
	Maximum Isolation Voltage	V O(max)		TV switch and		GND contin	uouslv			± 50	kVDC	
S	Max. Housing Insulation Voltage	VI					,			± 50 ± 70	kVDC	
RATINGS	Maximum Turn-On Peak Current	I _{P(max)}	T _{case} =	Between switch and housing surface, 3 minutes T _{case} = t _o < 200 µs, duty cycle <1%						600		
	- San	· (IIIIIA)	25°C	t _p < 1 ms, do						360	ADC	
				t_p < 10 ms, duty cycle <1%						115		
M				t _p < 100 ms, duty cycle <1%						60		
МАХІМИМ	Maximum Continuous Load Current	I _{L(max)}	T _{case} = Standard devices							2.52	ADC	
4X1		, ,	25°C Devices with option DLC							60		
W	Max. Continuous Power Dissipation	$P_{d(max)}$	T _{case} = Standard devices & FC, forced air 4 m/s							38		
7E			25°C Devices with option DLC							3600	Watt	
n	Linear Derating		Above Standard devices & FC, forced air 4 m/s							0.12		
4 <i>BSOLUTE</i>			25°C Devices with option DLC							160	W/K	
AB	Operating Temperature Range	T ₀	Standard devices & options CF, GCF, ILC. (Option DLC)							-4070	C°	
	Storage Temperature Range Max. Permissible Magnetic Field	T _S		Switches with option ILC may require frost protection!						-4090 25	C° mT	
	Max. Auxilliary Voltage	V _{aux}		Homogeneous steady-field, surrounding the whole switch Built-in overvoltage limiter (replaceable)						5.5	VDC	
	Permissible Operating Voltage Range	V _{aux}		Unipolar operation (one switch pole grounded or floated)						0 ± 40	kVDC	
	Typical Breakdown Voltage	V _{br}		IOTE: V. is a test parameter for quality							+	
		V DI	control purp	control purposes only. Not applicable in Ioff > 0.5 mA						44	kVDC	
	Typical Off-State Current	l _{off}		0.8xV ₀ , T _{case} =2570°C, reduced l _{off}						< 320	μADC	
	Typical Turn-On Resistance	R _{stat}				0.1 x I _{P(max)} , T _{case} =25°C				0.36		
			$ t_p < 1\mu s, dt$	iuty cycle < 19	%	1.0 x I _{P(max)} , T _{case} = 25		l I		0.75	Ohm	
	Typical Propagation Delay Time	+	1.0 x I _{P(max)} , T _{case} = 70°C					,	0.80			
	71 1 0 7	t _{d(on)}	Resistive load, 0.1 x I _{P(max)} , 0.8 x V _{O(max)} , 50-50% Impedance matched input, V _{aux} / V _{ctrl} = 5.00 VDC							3	ns	
	Typical Output Pulse Jitter Typical Turn-On Rise Time	t _j			•					35	ns	
	Typical Fulli-Off Rise Fillie	tr(on)	$ \begin{array}{c} \text{Resistive load, 10-90\%} \\ 0.1 \text{ x } V_{\text{O(max), }} $							90		
									130		ns	
cs	Maximum Turn-On Time	t _{on(max)}	No limitation					p(max)		∞	1	
CHARACTERISTICS	Minimum Turn-On Time	ton(min)		be customize	d. Please	consult fact	orv			200	ns	
R	Maximum Turn-Off Time	t _{off(max)}		No limitation						∞		
3.1.5	Minimum Turn-Off Time	t _{off(min)}	t _{off(min)} can be customized. Please consult factory							200	ns	
846	Max. Continuous Switching	f _(max)		@ V _{aux} = 5.00 V Standard devices withou				otion		TBD		
441	Frequency		Sw. shutdown i	Sw. shutdown if f _(max) is Standard devices with HFS supply						50		
C			exceeded Opt. HFS + sufficient cooling option					ion		100	kHz	
44	Maximum Burst Frequency	$f_{b(max)}$	Use option HFB for >10 pulses within 20µs or less							500	kHz	
ELECTRICAL	Maximum Number of Pulses / Burst	$N_{(max)}$	@ f _{b(max)}	@ f _{b(max)} Standard						> 10 Use option HFB for >10	Pulses	
115			Note: Option HF	Note: Option HFB requires external buffer capacitors with a voltage Option I-HFB						>100		
9 7			rating of > 630VDC and a cpacitance of 100nF per additional Option HFB					FВ		>1000	_	
E	Coupling Capacitance	Cc	HV side against control side						<100	pF		
	Natural Capacitance Control Voltage Range	V _{ctrl}		Between switch poles, @ 0.5 x V _{O(max)} The V _{ctrl} has no impact on the output pulse shape.						<50 3 10	p⊦ VDC	
	Auxiliary Supply Voltage Range	V _{ctrl}		The +5 V supply is not required in the HFS mode.						5	VDC	
	Typical Auxiliary Supply Current	I _{aux}		$V_{aux} = 5.00 \text{ VDC}$, $T_{case} = 25^{\circ}\text{C}$. $0.01 \text{ x f}_{(max)}$						TBD	100	
	l sprout turmany supply surront	-uux	Active current limitation above 1A.					nuxy		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	
			Fault condition is indicated by a logical "L"									
	Opt. HFS, Ext. Supply Voltage V1	V _{HFS(V1)}	Stability ±3%, current consumption <0.4 mA/kHz @ 25°C							15	VDC	
	Opt. HFS, Ext. Supply Voltage V2	Stability ±3%, current consumption <0.9 mA/kHz @ 25°C							TBD	VDC		
	Intrinsic Diode Forward Voltage	V _F	$T_{case} = 25^{\circ}C$, $I_F = 0.3 \text{ x } I_{P(max)}$							<30	VDC	
	Diode Reverse Recovery Time	$T_{\text{case}} = 25^{\circ}\text{C}, \ I_{\text{F}} = 0.3 \text{ x } I_{\text{P(msx)}}, \ \text{di/dt} = 100 \text{ A/}\mu\text{s}$ Standard housing							<50	ns		
		Dimensions LxWxH							1	Please contact the		
	Dimensions	LxWxH	.	Devices with option CF, non-isolated cooling fins							-	
N.G	Dimensions	LxWxH		•		ted cooling	fins			manufactured!	mm ³	
JSING		LxWxH	Devices w	ith option DL		ted cooling	fins				mm ³	
HOUSING	Dimensions Weight	LxWxH	Devices will Standard h	rith option DL	C					Please contact the		
HOUSING		LxWxH	Devices will Standard h Devices will	rith option DL housing rith option CF	C , non-isola						mm³	
	Weight Control Signal Input Pin 1 / Yellow. T	TL compatible	Devices windown Devices with Schmitt-Tr	vith option DL housing vith option CF vith option DL rigger characterist	, non-isola C cics. Control v	ited cooling	fins -5 V recommen		/ jitter).	Please contact the		
	Weight Control Signal Input Pin 1 / Yellow. T Logic GND / 5V Return Pin 2 / Black. Th	TL compatible	Devices wind Devices wind Schmitt-Tres internally connected with Schmitt-Tres internally connected by the schmitt-Tres	nousing with option CF with option CF with option DL with option D	, non-isola C tics. Control v fety earthing	ited cooling	fins -5 V recommended insert) on bot	tom side.		Please contact the		
	Weight Control Signal Input Logic GND / 5V Return 5V Auxiliary Supply Fault Signal Output Pin 4 / Orange.	TL compatible e ground pin i 5 V input is u TL output, sh	Devices with Schmitt-Tres internally connected for rep rates ort circuit proof.	with option DLo housing with option CF with option DLo rigger characterist nected with the sa s up to the specific Indicating switch	, non-isola C cics. Control v fety earthing ed max. frequ & driver over	oltage 2-10 V (3 terminal (thread ency f _(max) . High-heat, over-freq	Fins -5 V recommended insert) on bother rep rates required ency, low auxilia	tom side. uire option l iary voltage	HFS. e. L = Fau	Please contact the manufactured!		
	Weight Control Signal Input Logic GND / 5V Return 5V Auxiliary Supply Fault Signal Output Inhibit Signal Input Pin 5 / Green. T	TL compatible e ground pin i 5 V input is u TL output, sh	Devices w Standard h Devices w Devices w with Schmitt-Tr s internally conn sed for rep rates ort circuit proof. Schmitt-Trigge	with option DLo nousing with option CF with option DLo rigger characterist nected with the sa s up to the specific	, non-isola C Ciccs. Control v fety earthing ed max. frequ & driver over for the connec	oltage 2-10 V (3 terminal (thread ency f _(max) . High-heat, over-freq tion of external	Fins 5 V recommended insert) on bother rep rates requirency, low auxiliated for the control of	tom side. uire option l iary voltage . = Switch li	HFS. e. L = Fau Inhibited.	Please contact the manufactured!		
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