



Micro Commercial Components



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ESDU5V0M5

5 Volts
ESD Protection
Device

Features

- Halogen free available upon request by adding suffix "-HF"
Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
Epoxy meets UL 94 V-0 flammability rating
Moisture Sensitivity Level 1
Low reverse claming voltage
Low leakage current
Low capacitance: 0.8pF max.
Low reverse stand-off voltage:5V

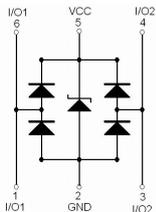
Maximum Ratings

- Operating Junction & Storage Temperature: -55°C to +150°C

Table with 4 columns: Parameter, Symbol, Limits, unit. Rows include IEC61000-4-2ESD Voltage, JESD22-A114-B ESD Voltage, Peak Pulse Power, and Peak Pulse Current.

- (1).Device stressed with ten non-repetitive ESD pulses.
(2).Non-repetitive current pulse 8/20µs exponential decay waveform according to IEC61000-4-5.

PinConfiguration



Marking: U5N2

SOT-563

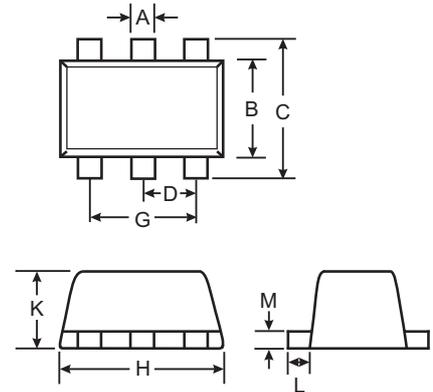
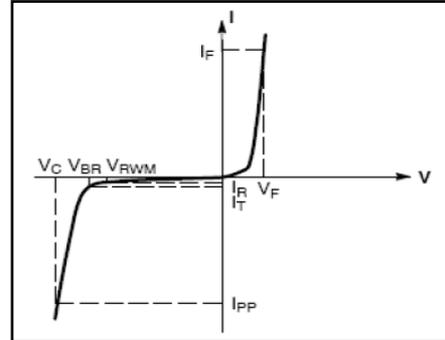


Table with 6 columns: DIM, INCHES (MIN, M), M (MIN, MAX), NOTE. Lists dimensions A through M.

ELECTRICAL PARAMETER

Symbol	Parameter
V_C	Clamping Voltage @ I_{PP}
I_{PP}	Peak Pulse Current
V_{BR}	Breakdown Voltage @ I_T
I_T	Test Current
I_R	Reverse Leakage Current @ V_{RWM}
V_{RWM}	Reverse Standoff Voltage
V_F	Forward Voltage @ I_F
I_F	Forward Current



ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$ unless otherwise specified)

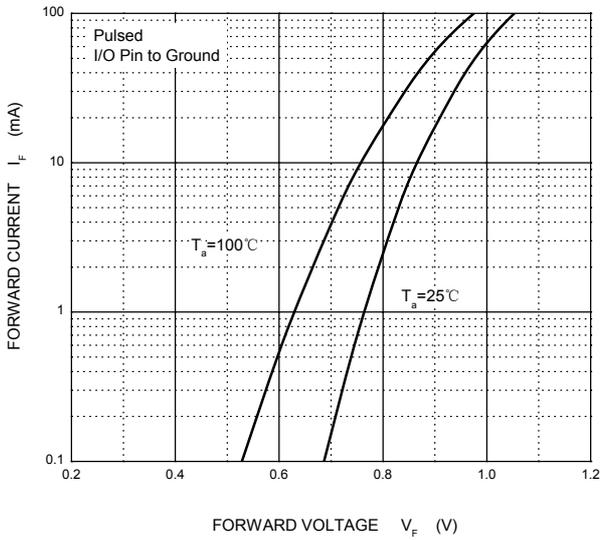
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Per channel(I/O to GND unless otherwise specified)						
Reverse stand off voltage	$V_{RWM}^{(1)}$				5	V
Breakdown voltage	$V_{(BR)}$	$I_T=1\text{mA}$	6.0		10	V
		$I_T=1\text{mA}$ V_{CC} to GND	5.0		12	V
Reverse leakage current	I_R	$V_{RWM}=5\text{V}$ (I/O to GND & V_{CC} to GND)			1	μA
Forward voltage	V_F	$I_F=10\text{mA}$ (I/O to GND & V_{CC} to GND)	0.4		1.5	V
Clamping voltage	$V_C^{(2)}$	$I_{PP}=1\text{A}$ (I/O to GND & V_{CC} to GND)			13	V
		$I_{PP}=3.5\text{A}$ (I/O to GND & V_{CC} to GND)			25	V
Junction capacitance	C_J	$V_R=0\text{V}, f=1\text{MHz}$			0.8	pF
		$V_R=0\text{V}, f=1\text{MHz}$, I/O to I/O			0.4	pF

(1).Other voltages available upon request.

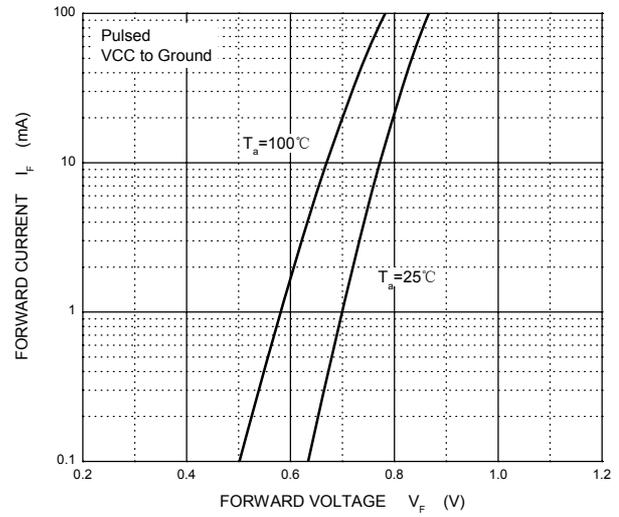
(2).Non-repetitive current pulse 8/20 μs exponential decay waveform according to IEC61000-4-5

TYPICAL CHARACTERISTICS

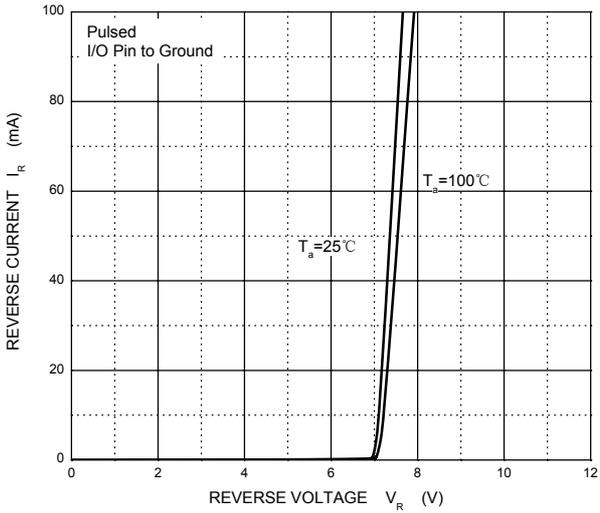
Forward Characteristics



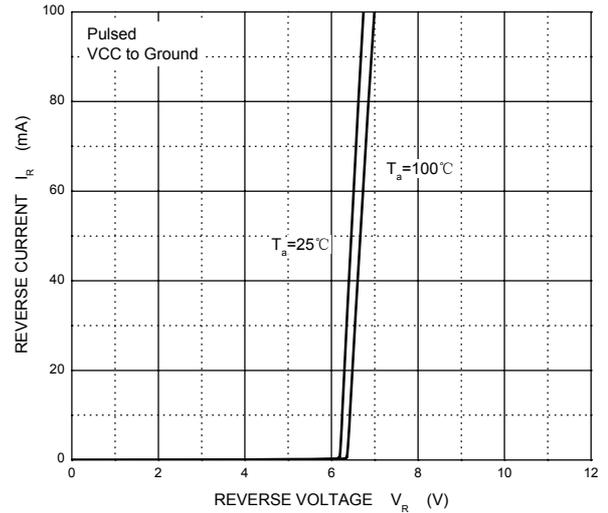
Forward Characteristics



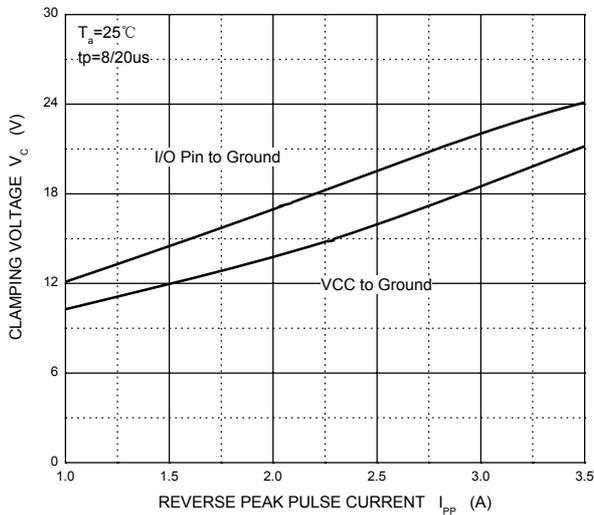
Reverse Characteristics



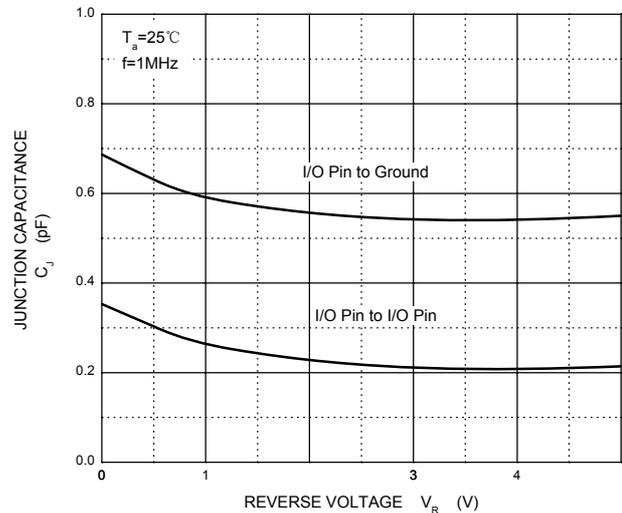
Reverse Characteristics



V_C — I_{PP}



Capacitance Characteristics





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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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