

Features

- · Low Reverse Claming Voltage
- Low Leakage Current
- · Low Capacitance
- Moisture Sensitivity Level 1
- · Epoxy Meets UL 94 V-0 Flammability Rating
- · Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

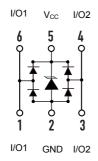
Maximum Ratings

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

MCC Part Number	Device Marking		
ESDU5V0M5	U5N2		

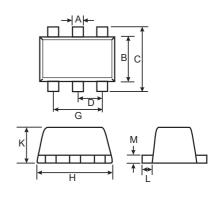
IEC61000-4-2(ESD)	Air Contact	±25KV ±25KV
JESD22-A114-B(ESD)	Human Body Machine	16KV 0.4KV
Peak Pulse Current(8/20μs)	I _{PP}	3.5A
Peak Pulse Power (8/20us)	P _{PK}	90W

Internal Structure



ESD Protection Device





DIMENSIONS					
DIM	INCHES		MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.006	0.011	0.15	0.30	
В	0.043	0.051	1.10	1.30	
С	0.059	0.067	1.50	1.70	
D	0.0	20	0.9	50	TYP.
G	0.035	0.043	0.90	1.10	
Н	0.059	0.067	1.50	1.70	
K	0.020	0.023	0.52	0.60	
L	0.004	0.011	0.10	0.30	
М	0.004	0.007	0.10	0.18	

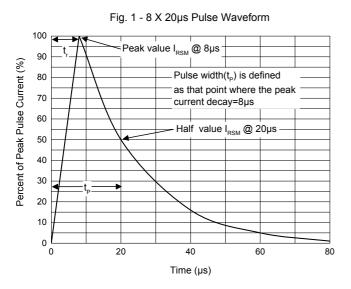


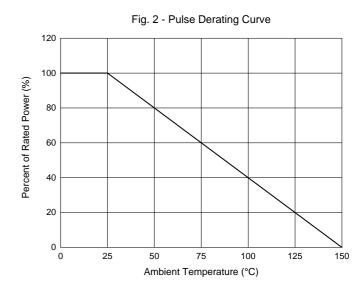
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

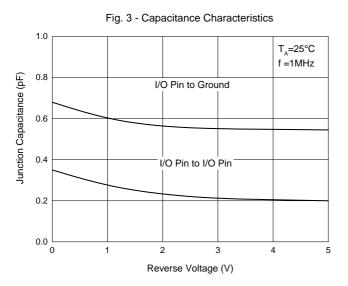
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	I _T = 1mA, I/O to GND	6		10	V
Reverse Breakdown Voltage	V_{BR}	$I_T = 1$ mA, V_{CC} to GND	5		12	V
Reverse Leakage Current	I _R	V _{RWM} =5V, I/O to GND & V _{CC} to GND			1	μΑ
Forward Voltage	V _F	I _F =10mA,I/O to GND & V _{CC} to GND	0.4		1.5	V
Clamping Voltage	V _C	I _{PP} =1A, t _P =8/20μs, I/O to GND & V _{CC} to GND			13	V
Clamping Voltage	V _C	I _{pp} =3.5A, t _p =8/20μs, I/O to GND & V _{CC} to GND			25	V
Junction Capacitance	CJ	$V_R = 0V$, $f = 1MHz$, I/O to GND			0.8	pF
Junction Capacitance	С	V _R = 0V, f = 1MHz, I/O to I/O			0.4	pF

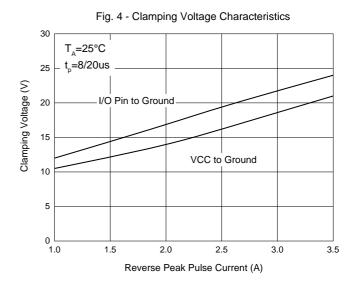


Curve Characteristics











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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