

Features

- · Ultra Low Leakage
- Low Clamping Voltage
- · Moisture Sensitivity Level 1
- · Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

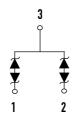
- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C

MCC Part Number	Device Marking		
SM712H	H712		

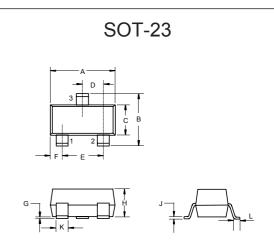
IEC61000-4-2(ESD)	Air Contact	±30KV ±30KV	
IEC61000-4-4 (EFT) @5/50ns		40A	
IEC61000-4-5(Lightning) Note 2 Peak Pulse Current (8/20µs)	I _{PP}	36A	
Peak Pulse Power (8/20µs) Pin 1 or 2 to Pin 3	P _{PK}	1000W	
Peak Pulse Power (8/20µs) Pin 3 to Pin 1 or 2	P _{PK}	600W	

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure

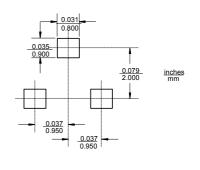


ESD Protection Device



DIMENSIONS					
DIM INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOIL
Α	0.110	0.120	2.80	3.04	
В	0.083	0.104	2.10	2.64	
С	0.047	0.055	1.20	1.40	
D	0.034	0.041	0.85	1.05	
E	0.067	0.083	1.70	2.10	
F	0.018	0.024	0.45	0.60	
G	0.0004	0.006	0.01	0.15	
Н	0.035	0.043	0.90	1.10	
J	0.003	0.007	0.08	0.18	
K	0.012	0.020	0.30	0.51	
L	0.007	0.020	0.20	0.50	

Suggested Solder Pad Layout



^{2.} Compatible with IEC 61000-4-5 ((Lightning): 36A, 8/20 μ s - Level 3 (Line-Ground) & Level 2 (Line-Line).

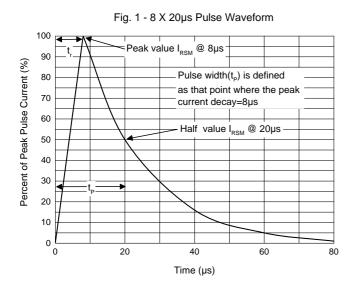


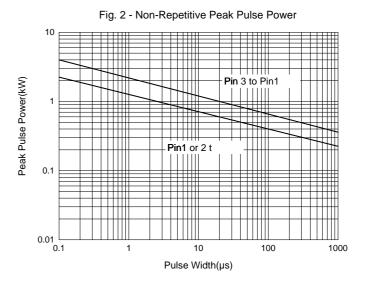
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

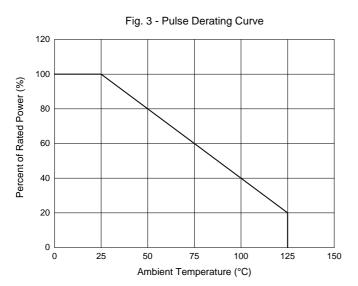
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}	Pin 1 or 2 to Pin 3			12	V
		Pin 3 to Pin 1 or 2			7	V
Reverse Breakdown Voltage	V_{BR}	I _T = 1mA, Pin 1 or 2 to Pin 3	13.3			V
		I _T = 1mA, Pin 3 to Pin 1 or 2	7.5			V
Reverse Leakage Current	I _R	V _R =V _{RWM}			0.1	μA
Clamping Voltage	V _C	I _{PP} =1A, t _P =8/20μs, Pin 1 or 2 to Pin 3			19	V
		I _{PP} =1A, t _P =8/20μs, Pin 3 to Pin 1 or 2			10	V
		I _{PP} =25A, t _P =8/20µs, Pin 1 or 2 to Pin 3			25	V
		I _{PP} =25A, t _P =8/20μs, Pin 3 to Pin 1 or 2			15	V
		I _{PP} =36A, t _P =8/20µs, Pin 1 or 2 to Pin 3			28	V
		I _{PP} =36A, t _P =8/20μs, Pin 3 to Pin 1 or 2			17	V
Junction Capacitance	CJ	V _R =0V, f=1MHz			75	pF

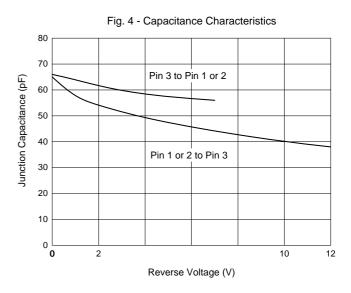


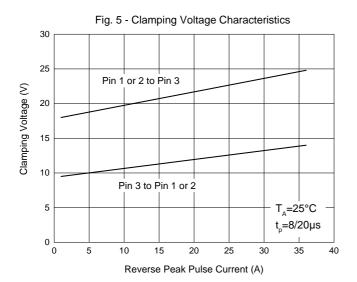
Curve Characteristics













Ordering Information

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

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