

Features

- · Low Reverse Clamping Voltage
- · Low Leakage Current
- · 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

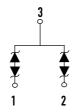
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C

MCC Part Number	Device Marking
LSM05B	BL5A

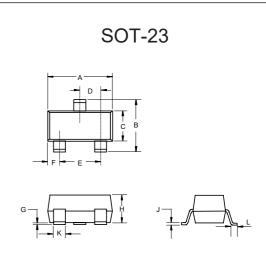
IEC61000-4-2(ESD)	Air Contact	±25KV ±25KV	
JESD22-A114-B(ESD)	Machine Human Body	±0.4KV ±16KV	
Peak Pulse Current(8/20µs)	I _{PP}	5A	
Peak Pulse Power (8/20us)	P _{PK}	50W	

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

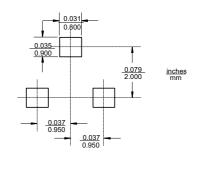


ESD Protection Device



	DIMENSIONS				
DIM INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	INOTE
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	
Е	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	

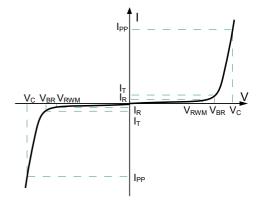
Suggested Solder Pad Layout





ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

Symbol	Parameter		
I _{PP}	Maximum Reverse Peak Pulse Current		
V _C	Clamping Voltage @ I _{PP}		
V_{RWM}	Working Peak Reverse Voltage		
I _R	Maximum Reverse Leakage Current @ V _{RWM}		
V_{BR}	Breakdown Voltage @ I _T		
I _T	Test Current		
С	Capacitance @V _R =0 and f =1MHz		

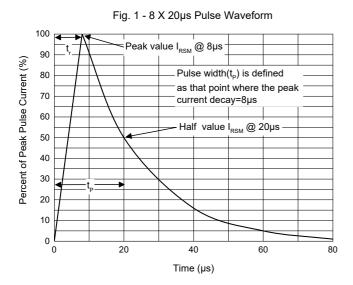


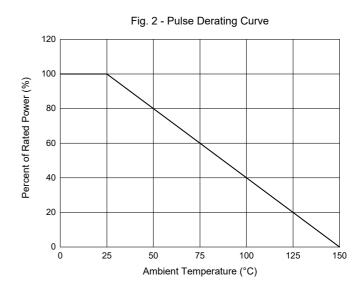
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

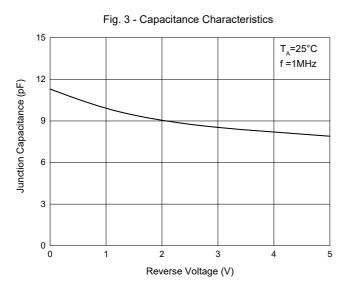
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	I _T = 1mA	5.8		8	V
Reverse Leakage Current	I _R	V _{RWM} =5V			0.1	μΑ
Clamping Voltage	V _C	I _{PP} =5A, t _P =8/20μs			10	V
Junction Capacitance	С	$V_R = 0V$, $f = 1MHz$		12	15	pF

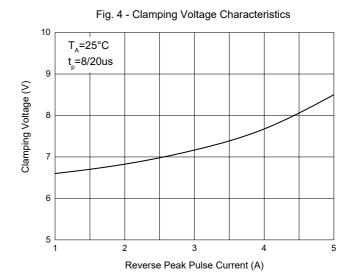


Curve Characteristics











Ordering Information

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

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