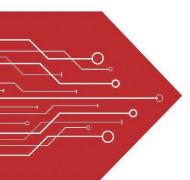
MSKSEMI















ESD

TVS

TSS

MOV

GDT

PLED

Product data sheet

www.msksemi.com



Features

- 60 Watts peak pulse power (tp = $8/20\mu$ s)
- Transient protection for high speed data lines to

IEC 61000-4-2 (ESD) ±30kV (air), ±30kV (contact)

IEC 61000-4-4 (EFT) 40A (5/50ns)

- Working voltages : 5V
- Protects One Power or I/O Port
- Low operating and clamping voltages
- Solid-state silicon avalanche technology

Applications

- Notebooks, Desktops, Servers and Video Graphics Cards
- **USB Power & Data Line Protection**
- Monitors and Flat Panel Displays
- I²C Bus Protection
- Portable Instrumentation
- Set Top Box





0201

Electrical Characteristics@ Ta=25°C unless otherwise

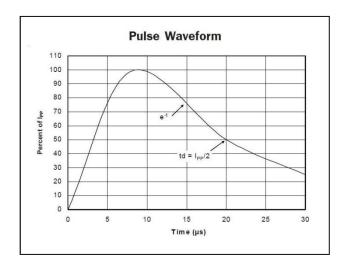
	VRWM @IR		VBR@ImA	VC@1A	VC@IPP		Cl
P/N	V	μΑ	V	V	V	Α	pF
		MAX	MIN	MAX	MAX		MAX
ESD5V0V1BCSF-MS	5	1	5.6	9.8	12.5	5	5

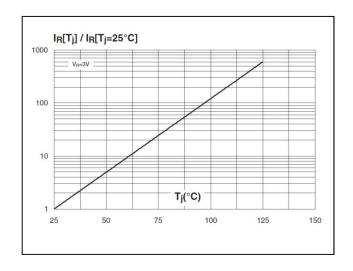
Maximum Rating @ Ta=25°C unless otherwise specified

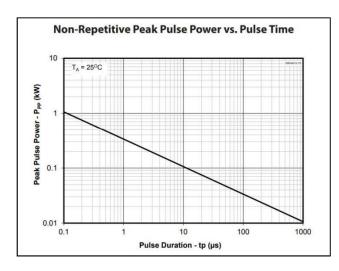
Symbol	Parameter	Ratings	Units
P _{PK}	Peak Pulse Power (tp = 8/20μs)	60	Watts
TL	Lead Soldering Temperature	260(10sec.)	$^{\circ}$
TJ	Operating Temperature	-55 to +150	$^{\circ}$
T _{STG}	Storage Temperature	-55 to +150	$^{\circ}$

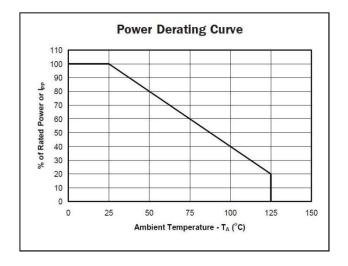


Typical Characteristics@ Ta=25°C unless otherwise specified



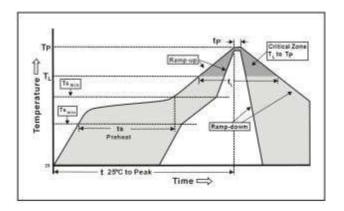






Soldering Parameters

Reflow Condition		Fb – Free assembly	
	- Temperature Min (T _{sown)})	150°C	
Pre Heat	- Temperature Max (T _{s(Max)})	200°C	
	-Time (Min to max) (t _j)	60 - 180 secs	
Average (T _L) to pea	amp up rate (Liquidus) Temp ik	3°C/second Max	
T _{s (Max)} to 1	- Ramp-up Rate	3°C/second Max	
Reflow	-Temperature (T _i) (Liquidus)	217°C	
	-Temperature (t _i)	60 - 150 seconds	
Peak Temperature (T _p)		250°°°5°°C	
Time within 5°C of actual peak Temperature (t,)		20 - 40 seconds	
Ramp-down Rate		6°C/second Max	
Time 25°C to peak Temperature (Tp)		8 minutes Max.	
Do not exceed		260°C	

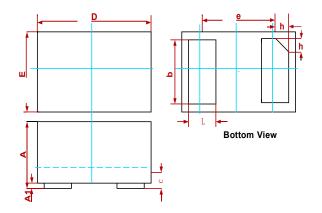






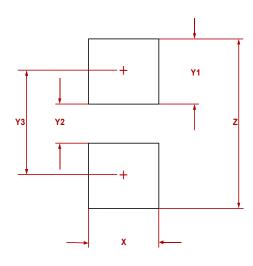


PACKAGE MECHANICAL DATA



	DIMENSIONS				
	MILLIMETERS				
SYM	MIN NOM N		MAX		
Α	0.230			0.330	
A1	0.000	0.020		0.050	
b	0.215	0.245		0.275	
С	0.120	0.150		0.180	
D	0.550	0.600		0.650	
е	0.355 BSC				
Е	0.250	0.300		0.350	
L	0.160	0.190		0.220	
h	0.079 BSC				

Suggested Pad Layout



SYM	DIMENSIONS			
STIVI	MILLIMETERS	INCHES		
Х	0.30	0.012		
Y1	0.25	0.010		
Y2	0.15	0.006		
Y3	0.40	0.016		
Z	0.65	0.026		

REEL SPECIFICATION

P/N	PKG	QTY
ESD5V0V1BCSF-MS	0201	15000



Semiconductor

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