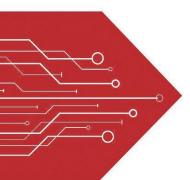
MSKSEMI















ESD

TVS

TSS

MOV

GDT

PLED

Product data sheet

www.msksemi.com





Specification Features

 Small Body Outline Dimensions: nom 0.039" x 0.024" (1.0x0.6 mm)

- Low Body Height: nom 0.0 19" (0.5 mm)
- Low Capacitance 8 pF
- Low Clamping Voltage
- Reverse Working (Stand-off) Voltage: 6 V
- Low Leakage
- Response Time is Typically < 1 ns
- IEC61000-4-2 Level 4 ESD Protection
- This is a Pb-Free Device



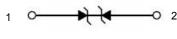
- CASE: Void-free, transfer-molded, thermosetting plastic Epoxy Meets UL 94 V−0
- LEAD FINISH: NiPdAu
- MOUNTING POSITION: Any
- QUALIFIED MAX REFLOW TEMPERATURE: 260°C
- Device Meets MSL 1 Requirements
- RoHS/WEEE Compliant



- Cellular Handsets & Accessories
- Personal Digital Assistants (PDAs)
- Notebooks & Handhelds
- Portable Instrumentation
- Digital Cameras
- Peripherals
- MP3 Players

Maximum Ratings





SOD-882

maximum Ratings				
Rating	Symbol	Value	Unit	
IEC 61000-4-2 (ESD) Contact		±30	kV	
Peak Power Per 8 x 20µs Waveform	P _{PK}	70	W	
Total Power Dissipation on FR-5 [®] Board @ TA = 25°C	P _D	300	mW	
Junction and Storage Temperature Range	T _J , T _{stg}	-55 to +150	°C	
Lead Solder Temperature - Maximum	TL	260	°C	

Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

Note1: FR-5 =1.0*0.75*0.062inch (25.4*19.05*1.58mm).

ELECTRICAL CHARACTERISTICS

(T_A = 25°C unless otherwise noted)

ELECTRICAL CHARACTERISTICS

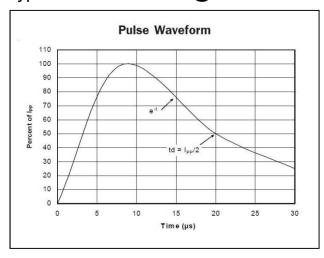
P/N	V _{RWM} (V)	I _{R1} (μΑ) @ V _{RWM}	I _{R2} (μ A) @ V _R =3.5V	V _{BR} (V (Not		Ι _Τ	V _C (V) @ I _{PP} = 1 A (Note 3)	V _C (V) @MAX IPP (Note 3)	I _{PP} (A) (Note 3)	P _{PK} (W) (Note 3)	C (pF)
	Max	Max	Max	Min	Max	mA	Max	Max	Max	Max	Max
MSESDAVLC6V1-1BM2	6.0	0.5	0.3	5.6	8.0	1.0	9.8	12.5	5.5	69	8

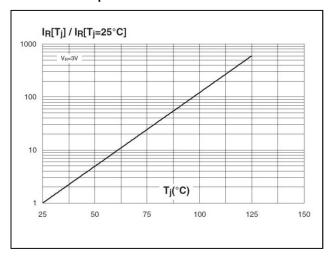
Other voltage available upon request.

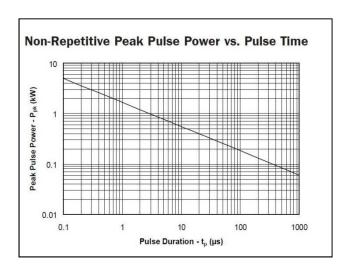
- 2. V_{BR} is measured with a pulse test current IT at an ambient temperature of 25 $^{\circ}{\rm C}$
- 3. Surge current waveform per Figure 3.

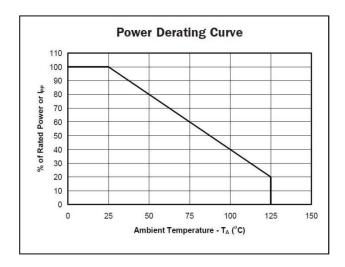


Typical Characteristics@ Ta=25°C unless otherwise specified



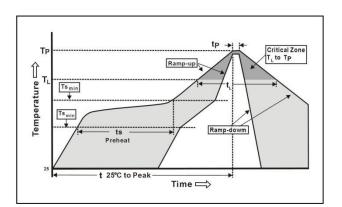






Soldering Parameters

Reflow Co	ndition	Fb – Free assembly	
	-Temperature Min (T _{s(Min)})	150°C	
Pre Heat	- Temperature Max (T _{s(Max)})	200°C	
	-Time (Min to max) (t _s)	60 - 180 secs	
Average ra (T _L) to pea	amp up rate (Liquidus) Temp k	3°C/second Max	
T _{s (Max)} to T	- Ramp-up Rate	3°C/second Max	
Reflow	-Temperature (T _L) (Liquidus)	217°C	
Reliow	-Temperature (t _L)	60 – 150 seconds	
Peak Temp	perature (T _p)	250*0/-5 °C	
Time with Temperate	in 5°C of actual peak ure (t _p)	20 – 40 seconds	
Ramp-dov	vm Rate	6°C/second Max	
Time 25°C	to peak Temperature (T _p)	8 minutes Max.	
Do not exc	ceed	260°C	

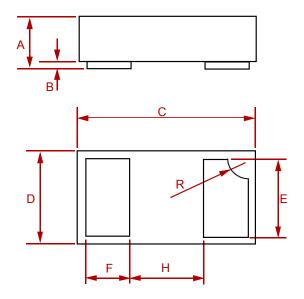






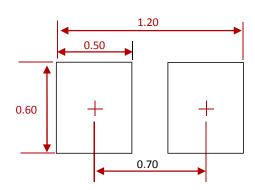


PACKAGE MECHANICAL DATA



Dim	Inc	hes	Millimeters		
Dim	MIN MAX		MIN	MAX	
Α	0.0125	0.02	0.32	0.52	
В	0.000	0.002	0.00	0.05	
С	0.037	0.043	0.95	1.080	
D	0.022	0.027	0.55	0.680	
E	0.016	0.024	0.40	0.60	
F	0.008	0.012	0.20	0.30	
Н	0.01	5Тур.	0.40	Тур.	
R	0.001	0.005	0.05	0.15	

Suggested Pad Layout



NOTES:

- 1. CONTROLLING DIMENSIONS ARE IN MILLIMETERS (ANGLES IN DEGREES).
- 2. THIS LAND PATTERN IS FOR REFERENCE PURPOSES ONLY. CONSULT YOUR MANUFACTURING GROUP TO ENSURE YOUR COMPANY'S MANUFACTURING GUIDELINES ARE MET.

REEL SPECIFICATION

P/N	PKG	QTY
MSESDAVLC6V1-1BM2	SOD-882	10000

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