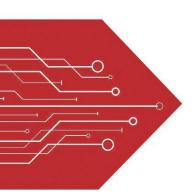
MSKSEMI















ESD

TVS

TSS

MOV

GDT

PLED

Broduct data speet



Features

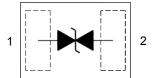
- Ultra-low Capacitance 0.9pF
- ◆ Low Clamping Voltage
- ◆ Small Body Outline Dimensions: 0.039 " x 0.024 " (1.0 mm x 0.60 mm)
- ◆ Low Body Height: 0.019 ****** (0.5 mm)
- ◆ Stand-off Voltage: 5.0V
- ◆ Low Leakage
- ◆ Response Time is Typically < 1 ns
- ♦ IEC61000-4-2 Level 4 ESD Protection for datalines
- ♦ These are Pb-Free Devices

Applications

- ◆ 10/100/1000 Mbits/s Ethernet
- ◆ FireWire
- Display ports
- ♦ MDDI ports
- ◆ Digital Visual Interface (DVI)
- Cellular handsets & accessories
- ◆ Computer and peripherals

DFN1006





Electrical Characteristics@ Ta=25°C unless otherwise

	VRWM@IR		VBR@ImA	Vc@1A	Vc@IPP		Cl
P/N	V	μA	V	V	V	Α	pF
		MAX	MIN	MAX	MAX		MAX
ESD9X5VU-MS	5	0.5	6.3	11	16	3	0.9

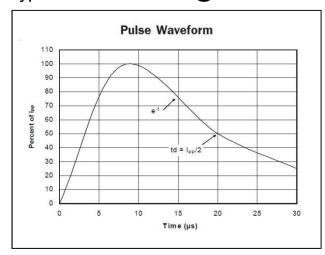
Maximum Rating @ Ta=25°C unless otherwise specified

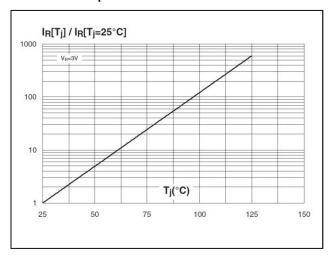
Symbol	Parameter	Ratings	Units		
500	150 04000 4 0 (UDM 50D)	Contact	8	I/V	
ESD	IEC 61000-4-2 (HBM-ESD)	Air	15	KV	
TL	Lead Soldering Temperature	260(10sec.)	${\mathbb C}$		
TJ	Operating Temperature	-55 to +125	${\mathbb C}$		
T _{STG}	Storage Temperature	-55 to +150	${\mathbb C}$		

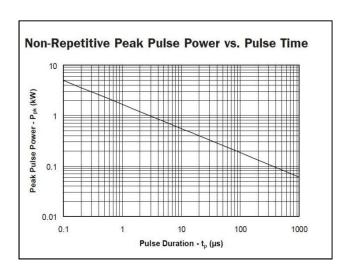


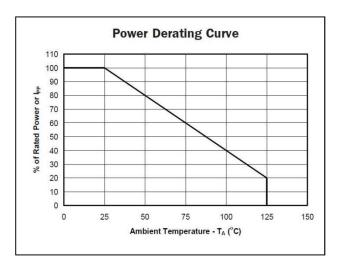


Typical Characteristics@ Ta=25°C unless otherwise specified



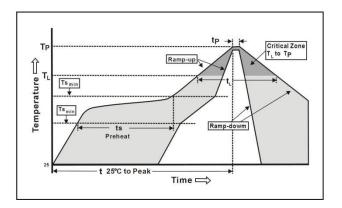






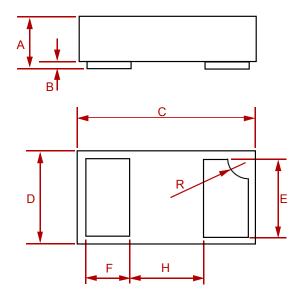
Soldering Parameters

Reflow Condition		Fb – Free assembly		
Pre Heat	-Temperature Min (T _{s(Min)})	150°C		
	- Temperature Max (T _{s(Max)})	200°C		
	-Time (Min to max) (t _s)	60 – 180 secs		
Average r (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		
Defless	-Temperature (T _L) (Liquidus)	217°C		
Reflow	-Temperature (t _L)	60 – 150 seconds		
Peak Tem	perature (T _p)	250+0/-5 °C		
Time within 5°C of actual peak Temperature (t _p)		20 – 40 seconds		
Ramp-dowm Rate		6°C/second Max		
Time 25°C	to peak Temperature (T _p)	8 minutes Max.		
Do not ex	ceed	260°C		



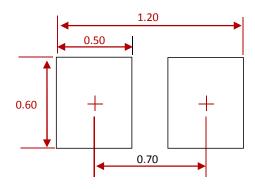


PACKAGE MECHANICAL DATA



Dim	Inc	hes	Millimeters		
	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	
Е	0.016	0.024	0.40	0.60	
F	0.008	0.012	0.20	0.30	
Н	0.01	5Тур.	0.40Typ.		
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
ESD9X5VU-MS	DFN1006	10000



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