MSKSEMI















ESD

TVS

TSS

MOV

GDT

PLED

Broduct data speet



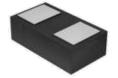
Semiconductor

Compiance

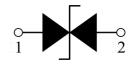
Specification Features

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 15 pF
- Low Clamping Voltage
- Reverse Working (Stand-off) Voltage: 5V
- Low Leakage
- Response Time is Typically < 1 ns
- IEC61000-4-2 Level 4 ESD Protection
- This is a Pb-Free Device



Pin Description



Schematic Diagram

DFN1006P2X

Mechanical Characteristics:

- 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
- Marking: Marking code

Applications

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

ELECTRICAL CHARACTERISTICS

P/N	V _{RWM} (V)	I _{R1} (μΑ) @ V _{RWM}	I _{R2} (μ A) @ V _R =3.5V	V _{BR} (V (Not		Ιτ	Vc (V) @ Ipp = 1 A (Note 3)	V _C (V) @MAX I _{PP} (Note 3)	IPP(A) (Note 3)	Ррк(W) (Note 3)	C (pF)
F/N	Max	Max	Max	Min	Max	mA	Max	Max	Max	Max	Max
AZ5725-01F-MS	5.0	0.5	0.3	5.6	8.0	1.0	9.8	12.5	5.5	69	15

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 (10 Second Duration)	TL	260	°C	





Electrical Parameter

Symbol	Parameter
I _{PP}	Maximum Reverse Peak Pulse Current
Vc	Clamping Voltage @ IPP
V _{RWM}	Working Peak Reverse Voltage
I _R	Maximum Reverse Leakage Current @ V _{RWM}
I _T	Test Current
V_{BR}	Breakdown Voltage @ I _T

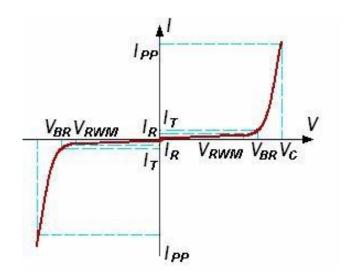


FIG1: Pulse Waveform

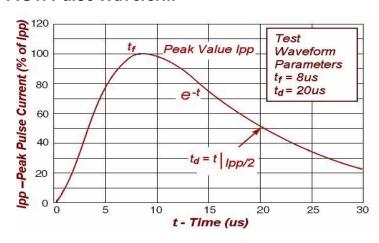
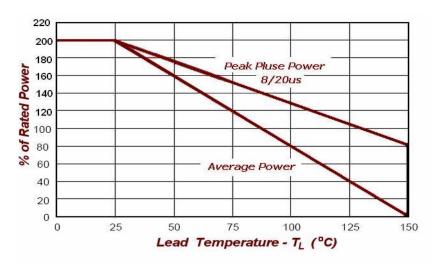
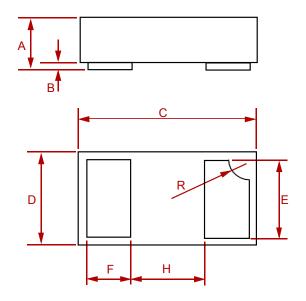


FIG2:Power Derating



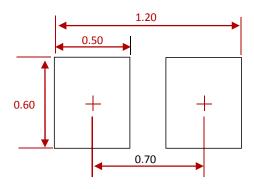


PACKAGE MECHANICAL DATA



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	
Е	0.016	0.024	0.40	0.60	
F	0.008	0.012	0.20	0.30	
Н	0.01	5Тур.	0.40Тур.		
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
AZ5725-01F-MS	DFN1006P2X	10000



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