MSKSEMI 美森科













ESD

TV

TSS

MOV

GDT

PIFD

IP4220CZ6-MS

Product specification





Features

Ultra low leakage: nA level

Operating voltage: 5V

Low clamping voltage

Complies with following standards:

- IEC 61000-4-2 (ESD) immunity test

Air discharge: ±15kV

Contact discharge: ±10kV

- IEC61000-4-4 (EFT) 40A (5/50ns)

- IEC61000-4-5 (Lightning) 5A (8/20 μs)

RoHS Compliant

Mechanical Data

Package: SOT-26

Lead Finish: Lead Free

UL Flammability Classification Rating 94V-0

Quantity Per Reel:3,000pcs

Reel Size:7inch

Applications

• USB 2.0 power and data line

Set-top box and digital TV

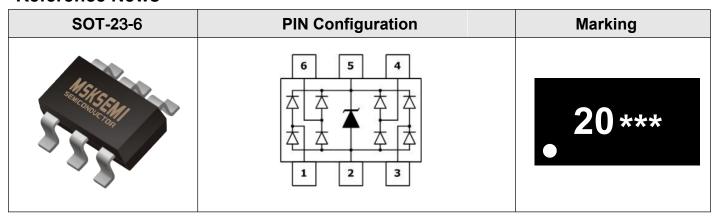
Digital video interface (DVI)

Notebook Computers

SIM Ports

• 10/100/1000 Ethernet

Reference News



Absolute Maximum Ratings(Tamb=25°C unless otherwise specified)

Parameter	Symbol	Value	Unit	
Peak Pulse Power (8/20µs)	Ррр	100	W	
ESD per IEC 61000-4-2 (Air)	Vesd	±15	Kv	
ESD per IEC 61000-4-2 (Contact)		±10		
Operating Temperature Range	TJ	-55 to +125	$^{\circ}$	
Storage Temperature Range	Тѕтл	-55 to +150	$^{\circ}$	



Electrical Characteristics (TA=25°C unless otherwise specified)

	V _{RWM}	V _{BR}	h	lı Vc		Vc		С
Part Number	(V)	(V)	(mA)		(Max)	(@A)	μΑ (Max)	(Pf) (Typ.)
IP4220CZ6-MS	5	6	1	12	16	5	1	0.6

Characteristic Curves

Fig1. 8/20 µs Pulse Waveform

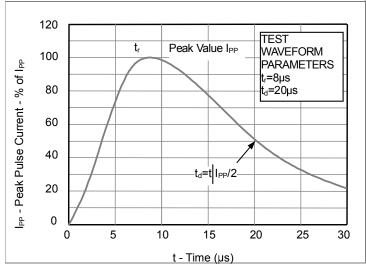


Fig2. ESD Pulse Waveform (according to IEC 61000-4-2)

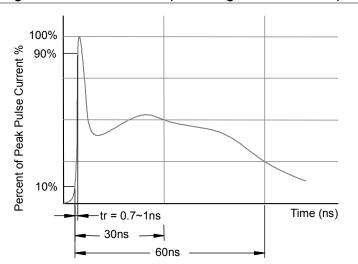
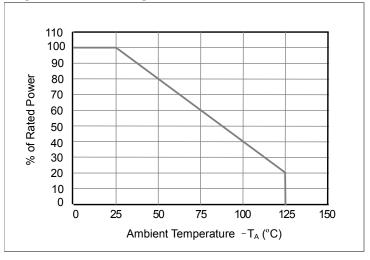
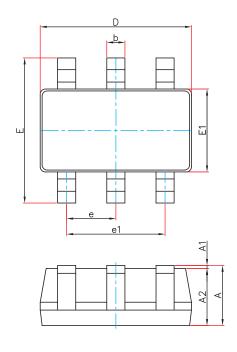


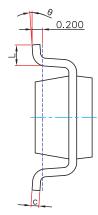
Fig3. Power Derating Curve





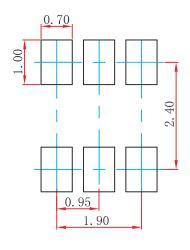
Package Outline Dimensions





Symbol	Dimensions In	n Millimeters	Dimensions In Inches		
Symbol	Min.	Max.	Min.	Max.	
Α	1.050	1.250	0.041	0.049	
A1	0.000	0.100	0.000	0.004	
A2	1.050	1.150	0.041	0.045	
b	0.300	0.500	0.012	0.020	
С	0.100	0.200	0.004	0.008	
D	2.820	3.020	0.111	0.119	
E1	1.500	1.700	0.059	0.067	
E	2.650	2.950	0.104	0.116	
е	0.950(BSC)		0.037((BSC)	
e1	1.800	2.000	0.071	0.079	
L	0.300	0.600	0.012	0.024	
θ	0°	8°	0°	8°	

Suggested Pad Layout



Note:

- 1.Controlling dimension:in millimeters.
- 2.General tolerance:± 0.05mm.
 3.The pad layout is for reference purposes only.

Order information

Orderable Device	Package	Packing Option
IP4220CZ6-MS	SOT-23-6	3000PCS



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