

FEATURES

| 500W Peak Pulse Power per Line (tp=8/20µs)

Reverse Working (Stand-off) Voltage: 5.0V

Low Leakage current

| Response Time is Typically < 1 ns

APPLICATIONS

| Smartphones, tablet computers

Blu-ray and DVD recorders and players

| Video equipment and accessories





IEC COMPATIBILITY

| IEC61000-4-2 (ESD) \pm 30kV (air), \pm 30kV (contact)

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

APPROVALS

RoHS	Compliance with 2011/65/EU
HF	Compliance with IEC61249-2-21:2003



THERMAL CONSIDERATIONS

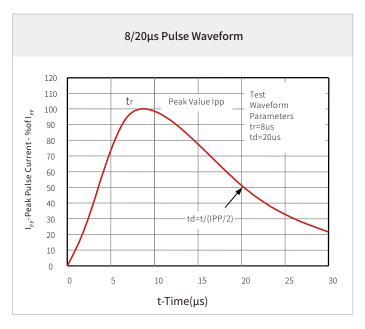
Symbol	Parameter	Value	Unit
P_{pp}	Peak Pulse Power (tp=8/20μs waveform)	500	Watts
T _J	Operating Temperature Range	-40 to +85	°C
T _{stg}	Storage Temperature Range	-55 to +150	°C

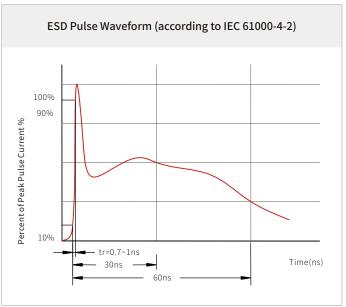
ELECTRICAL CHARACTERISTICS

Symbol	Parameter	Condition	Min.	Тур.	Max.	Unit
V_{RWM}	Reverse Stand-offVoltage				5.0	V
V_{BR}	Reverse Breakdown Voltage	I _⊤ =1mA	6.0		8.0	V
I _R	Reverse Leakage Current	V _{RWM} =5.0V			100	nA
V _c	Clamping Voltage	I _{pp} =35A,tp=8/20μs			16.5	V
I _{PP}	Peak Pulse Current	tp=8/20μs			35	А
C	Off State Junction Capacitance	V _R =0V, f=1MHz		240		pF



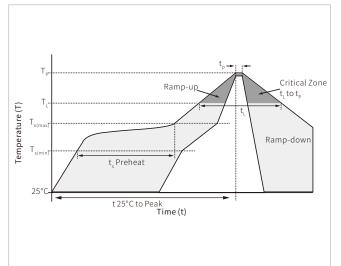
CHARACTERISTIC CURVES





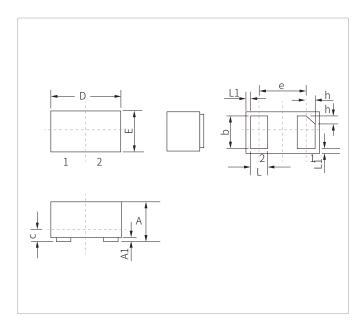
SOLDERING PARAMETERS

	Lead-free assembly		
	Temperature Max $(T_{s(min)})$	150°C	
Pre Heat	Temperature Max (T _{s(max)})	200°C	
	Time (min to max) (t _s)	60 – 180 secs	
Average ramp up rate (Liquidus Temp (T _L) to peak		3°C/second max	
	3°C/second max		
D (I	Temperature (T _L) (Liquidus)	217°C	
Reflow	Time (min to max) (t_L)	60 – 150 seconds	
Peak Temperature (T _P)		260°C	
Time within 5°C of actual peak Temperature (t _p)		20 – 40 seconds	
Ramp-dow	6°C/second max		
Time 25°C t	8 minutes max.		
Do not exceed		260°C	



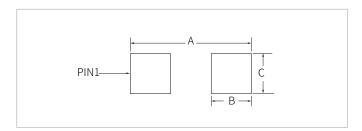


DFN1006 PACKAGE INFORMATION



Ref.	Millimeters		Inches	
ici.	Min.	Max.	Min.	Max.
А	0.40	0.60	0.016	0.024
A1	0	0.05	0	0.002
b	0.40	0.55	0.016	0.022
С	0.12	0.18	0.005	0.007
D	0.90	1.10	0.035	0.043
е	0.65BSC		0.02	6BSC
Е	0.55	0.70	0.022	0.027
L	0.20	0.35	0.008	0.014
L1	0.05REF		0.00	2REF
h	0.07	0.17	0.003	0.007

RECOMMENDED PAD LAYOUT DIMENSIONS



Ref.	Millimeters	Inches
А	1.20	0.047
В	0.47	0.019
С	0.60	0.024

ORDERING INFORMATION

Part Number	Component Package	QTY/Reel	Reel Size
SE10F50U5.0A	DFN1006	10000PCS	7"



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By QR Code





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Machai

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