

FEATURES

| 480Watts peak pulse power (tp = $8/20\mu s$)

| Standard Capacitance 100pF

Low Clamping Voltage:V_C=12V@I_{PP}=40A

Reverse Working (Stand-off) Voltage: 4.5V

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) ±30kV (air), ±30V (contact) | IEC61000-4-4 (EFT) 40A (5/50ns)

APPROVALS

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



THERMAL CONSIDERATIONS

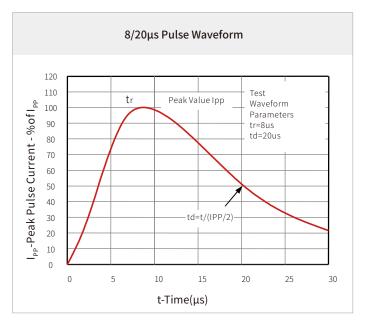
Symbol	Parameter	Value	Unit
P_{pp}	Peak Pulse Power (tp=8/20μs waveform)	480	Watts
T _J	Operating Temperature Range	-55 to +150	°C
T_{STG}	Storage Temperature Range	-55 to +150	°C

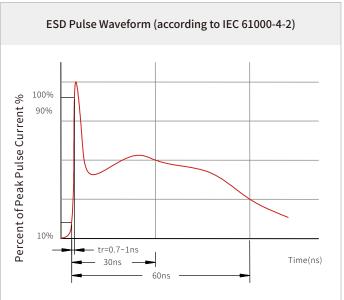
ELECTRICAL CHARACTERISTICS

Symbol	Parameter	Condition	Min.	Тур.	Max.	Unit
$V_{_{\mathrm{RWM}}}$	Reverse Stand-offVoltage				4.5	V
V_{BR}	Reverse Breakdown Voltage	I _T =1mA	4.8			V
I _R	Reverse Leakage Current	V _{RWM} =4.5V			200	nA
V_c	Clamping Voltage	I _{PP} =1A,tp=8/20μs			6.5	V
V _c	Clamping Voltage	I _{PP} =40A,tp=8/20μs			12	V
l _{pp}	Peak Pulse Current	tp=8/20μs			40	А
C	Off State Junction Capacitance	V _R =0V, f=1MHz			100	pF



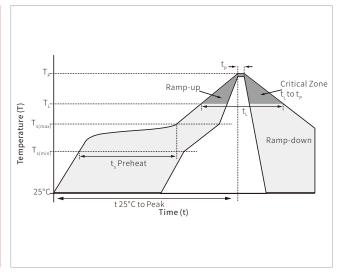
CHARACTERISTIC CURVES





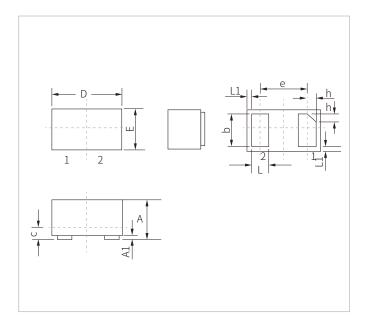
SOLDERING PARAMETERS

	Reflow Condition	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 ran	np up rate (Liquidus Temp (T_L) to peak	3°C/second max	
	T _{S(max)} to T _L - Ramp-up Rate	3°C/second max	
Reflow	Temperature (T _L) (Liquidus)	217°C	
	Time (min to max) (t _L)	60 – 150 seconds	
Peak Temp	260°C		
Time within 5°C of actual peak Temperature (tp)		20 – 40 seconds	
Ramp-down Rate		6°C/second max	
Time 25°C t	8 minutes max.		
Do not exceed		260°C	



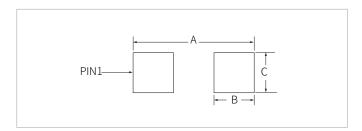


DFN1006 PACKAGE INFORMATION



Ref.	Millin	neters	Inches	
KCI.	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	0.65	BSC	0.026BSC	
E	0.55	0.75	0.022	0.030
L	0.20	0.35	0.008	0.014
L1	0.05	SREF	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
SE10F50B4.5A	DFN1006	10000PCS	7"



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By QR Code





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