

FEATURES

Low Capacitance: 8pF(typ.)

Reverse Working Voltage: 12V

Meet AEC-Q101 Requirements

APPLICATIONS

| Smart Phone and Tablet PC

TV and Set Top Box

Wearable Devices

PDA





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

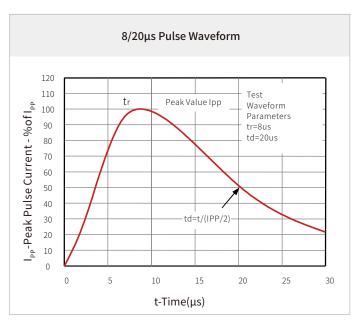
Symbol	Parameter	Value	Unit
P_{pp}	Peak Pulse Power (tp=8/20μs waveform)	150	Watts
T _J	T _J Operating Temperature Range		°C
T _{stg}	Storage Temperature Range	-55 to +150	°C

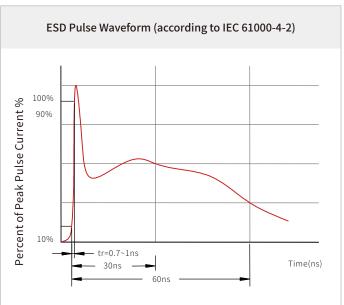
ELECTRICAL CHARACTERISTICS

Symbol	Parameter	Condition	Min.	Тур.	Max.	Unit
$V_{_{\mathrm{RWM}}}$	Reverse Stand-offVoltage				12	V
$V_{_{BR}}$	Reverse Breakdown Voltage	I _T =1mA	14	14.5	15	V
I _R	Reverse Leakage Current	V _{RWM} =12V			0.1	μΑ
V _c	Clamping Voltage	I _{PP} =8A,tp=8/20μs			19	V
l _{pp}	Peak Pulse Current	tp=8/20μs			8	А
CJ	Off State Junction Capacitance	V _R =0V, f=1MHz		8	8.5	pF



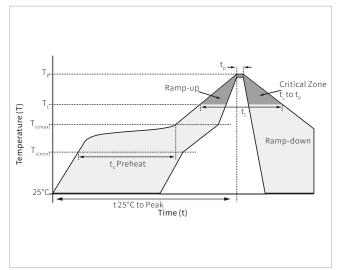
CHARACTERISTIC CURVES





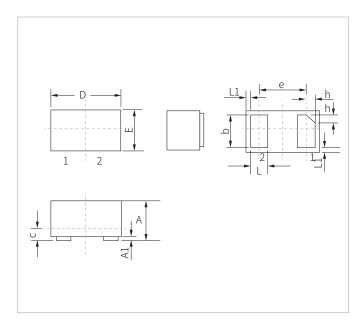
SOLDERING PARAMETERS

	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 ran	Average ramp up rate (Liquidus Temp (T _L) to peak		
	T _{s(max)} to T _L - Ramp-up Rate		
D (I	Temperature (T _L) (Liquidus)	217°C	
Reflow	Time (min to max) (t_L)	60 – 150 seconds	
Peak Temp	260°C		
Time withi	20 – 40 seconds		
Ramp-dow	6°C/second max		
Time 25°C t	8 minutes max.		
Do not exce	260°C		



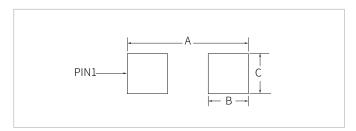


DFN1006 PACKAGE INFORMATION



Ref.	Millimeters		Inches	
ive.	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	0.75	0.022	0.030
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
TPSE10F20B12A	DFN1006	10000PCS	7"



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By QR Code





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