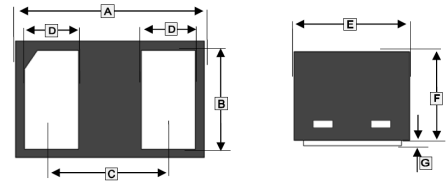


RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

## FEATURES

- Ultra Low Capacitance Typ.0.9pF
- Low Clamping Voltage
- Small Body Outline Dimensions
- Low Leakage Current
- Response Time is Typically < 1ns
- ESD Rating of Class 3 (>16kV) per Human Body Model
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish

## SOD-882



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	0.95	1.05	E	0.55	0.65
B	0.45	0.55	F	0.46	0.50
C	0.65 TYP		G	-	0.03
D	0.20	0.30			

## MARKING



## PACKAGE INFORMATION

Package	MPQ	Lead Size
SOD-882	10K	7inch

## ORDER INFORMATION

Part Number	Type
SCESD05U-C	Lead (Pb)-free and Halogen-free

## ABSOLUTE MAXIMUM RATINGS (TA = 25°C unless otherwise noted)

Parameter		Symbol	Value	Units
IEC61000-4-2	Air Discharge	ESD	±15	kV
	Contact Discharge		±8	
IEC61000-4-4		EFT	40	A
ESD Voltage	Per human body model	ESD	16	kV
Total Power Dissipation on FR-5 Board		P <sub>D</sub>	150	mW
Maximum Lead Solder Temperature Range (10 Second Duration)		T <sub>L</sub>	260	°C
Junction and Storage Temperature Range		T <sub>J</sub> , T <sub>STG</sub>	-55 ~ +150	°C

## ELECTRICAL CHARACTERISTICS (TA = 25°C unless otherwise noted)

Parameter	Symbol	Min	Typ	Max	Unit
Working Peak Reverse Voltage	V <sub>RWM</sub>	-	-	5	V
Maximum Reverse Leakage Current@ V <sub>RWM</sub> =5V	I <sub>R</sub>	-	-	1	µA
Breakdown Voltage@ I <sub>T</sub> =1mA <sup>1</sup>	V <sub>BR</sub>	5.4	-	-	V
Clamping Voltage@ I <sub>PP</sub> =1A, t <sub>p</sub> =8/20us	V <sub>C</sub>	-	-	12.9	V
Junction Capacitance @V <sub>R</sub> =0, f=1MHz	C <sub>J</sub>	-	0.9	-	pF

Note:

1. V<sub>BR</sub> is measured with a pulse test current I<sub>T</sub> at an ambient temperature of 25°C.

## RATINGS AND CHARACTERISTICS CURVES

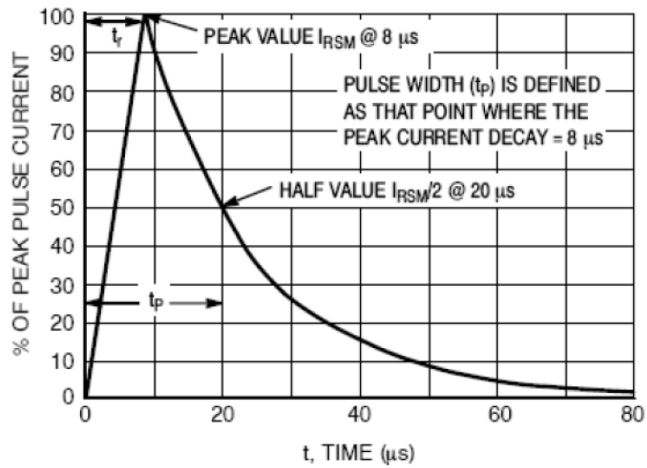


Figure 1. 8 x 20 μs Pulse Waveform