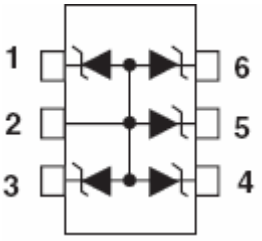
Applications

- Computers
- Printers
- Communication systems
- Cellular phones handsets and accessories
- Wireline and wireless telephone sets
- Set top boxes



Features

- 5 Unidirectional Transil functions
- Breakdown voltage:
- V_{BR} = 6.1 V min. and 25 V min.
- Low leakage current: < 1 mA
- Very small PCB area < 4.2 mm^2 typically
- High ESD protection level: up to 25 kV
- High integration
- Device marking:WF
- S- Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable.

Complies with the following standards

IEC61000-4-2

Level 4 15 kV (air discharge)

9 kV(contact discharge)

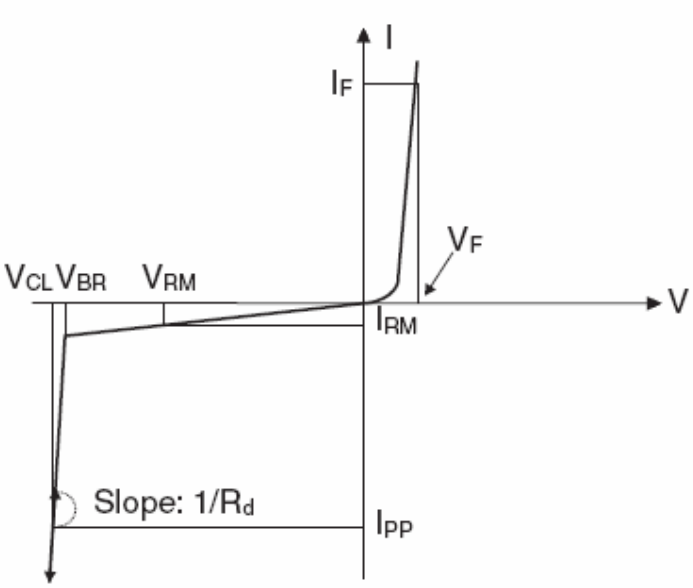
MIL STD 883E - Method 3015-7 Class 3

25 kV HBM (Human Body Model)

Absolute Ratings (T_{amb}=25°C)			
Symbol	**Parameter**	**Value**	**Units**
P_{PP}	Peak Pulse Power (t_p = 8/20μs)	100	W
T_L	Maximum lead temperature for soldering during 10s	260	°C
T_{stg}	Storage Temperature Range	-40 to +125	°C
T_{op}	Operating Temperature Range	-40 to +125	°C

Electrical Parameter

Symbol	Parameter
V_{RM}	Stand-off voltage
V_{BR}	Breakdown voltage
V_{CL}	Clamping voltage
I_{RM}	Leakage current
I_{PP}	Peak pulse current
I_R	Reverse current
I_F	Forward current
αT	Voltage temperature coefficient
V_F	Forward voltage drop
C	Capacitance
R_d	Dynamic



Electrical Characteristics

V_{BR}		I_R	V_{RM}	I_{RM}	V_F	I_F	R_d	α T	C
Min.	Max.				Max.		Typ.(1)	Max.(2)	Typ. 0v bias
v	v	mA	v	μA	v	mA	Ω	10^{-4}/°C	pF
5	7.2	1	5	1	1.25	200	0.61	6	50

1. Square pulse I_{PP}=15A,t_p=2.5μs 2. V_{BR}=aT*(T_{amb}-25°C)*V_{BR}(25°C)

Typical Characteristics

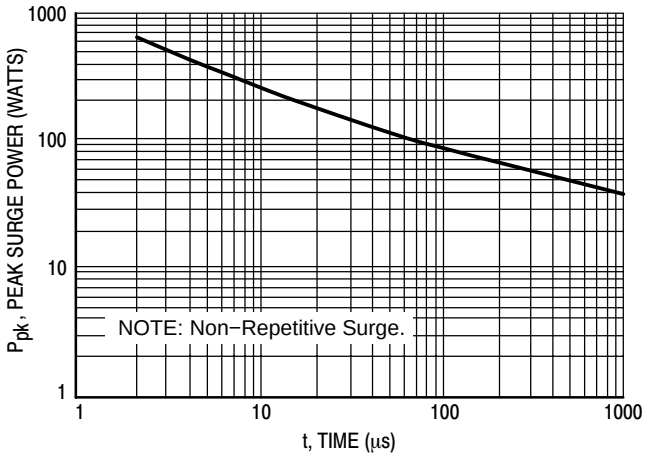


Figure 1. Pulse Width

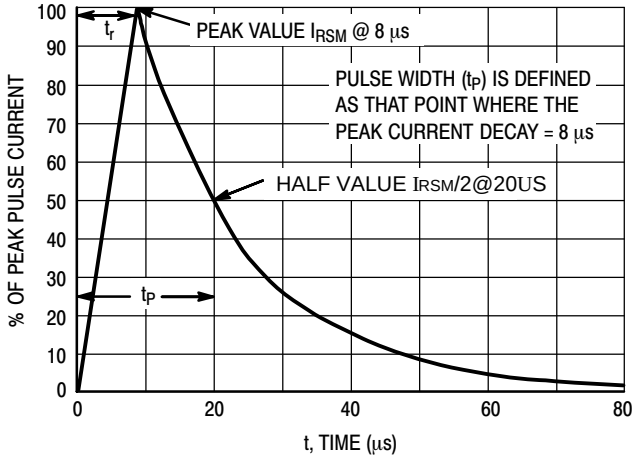
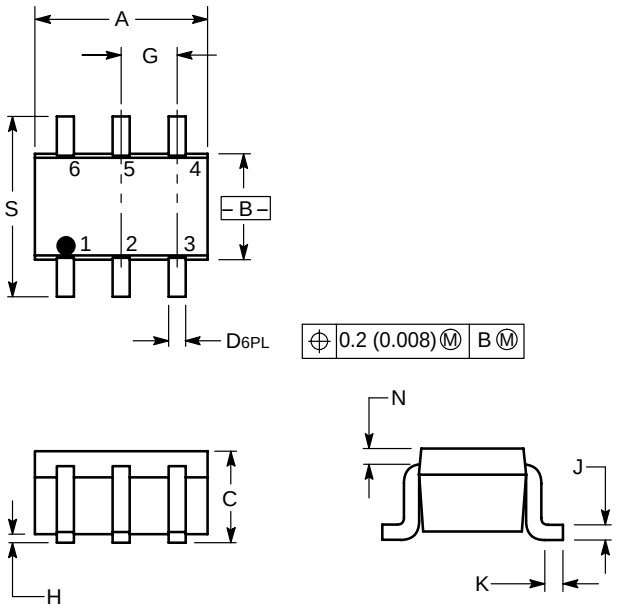


Figure 2. 8 x 20 μs Pulse Waveform

SC−88/SOT−363



NOTES:

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: INCH.

DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.071	0.087	1.80	2.20
B	0.045	0.053	1.15	1.35
C	0.031	0.043	0.80	1.10
D	0.004	0.012	0.10	0.30
G	0.026 BSC		0.65 BSC	
H	---	0.004	---	0.10
J	0.004	0.010	0.10	0.25
K	0.004	0.012	0.10	0.30
N	0.008 REF		0.20 REF	
S	0.079	0.087	2.00	2.20

PIN 1. EMITTER 2
2. BASE 2
3. COLLECTOR 1
4.EMITTER 1
5. BASE 1
6.COLLECTOR 2